



*Smart Chemistry*

# ZSIVIRA



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# ZSIVIRA

Preface about **ZSIVIRA** :

**ZSIVIRA CHEMIE MERK PRIVATE LIMITED** was founded in the year 1992 and was producing Micro Nutrients for Feed and Agro Industries. In the year 1996 **ZSIVIRA** entered into producing speciality chemicals for leather with just a handful of products to cater to the leather sector.

Now, **ZSIVIRA** produces almost 400+ individual products for the Leather Industry from Beamhouse to Finishing and further couple of range of products for Construction and PVC Additives. **ZSIVIRA** is equipped with its own in-house testing laboratories for chemicals and has its own Leather Development and Technical Service Centre across India. **ZSIVIRA** is one of the few companies in Leather Chemicals Sector being awarded for Best Manufacturing Practices.

**ZSIVIRA** now has presence in 19 Countries across the Globe.

**ZSIVIRA CHEMIE MERK** is awarded as the Top 10 prospective Indian Company in Chemical Sector for 2020 by the Prestigious "THE INDUSTRIAL OUTLOOK" magazine in 2020.

We are also accredited with Medical Excellence Award 2021 for inventing SURVIRAL C19 which is a Silver Based Nano Antiviral spray for protecting against Influenza A & Sars viruses.

All **ZSIVIRA** Products are compliant to REACH Norms and we are part of Global Sustainability Action Forum.

We are enrolled in the below forums and accredited with the following certifications :





# ZSIVIRA

## AUXILIARY PRODUCTS

**All Products Complies REACH Norms**

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## BASYPOL 115

Chrome Basifying Agent

Chemical composition	Blend of Organic and Inorganic compounds
Activity	98%
Appearance	Pale Pinkish White powder
Solubility	Sparingly soluble in weak acid solutions
Shelf life	Up to 6 months from the date of manufacture
Dilution	Added Undiluted

### Field of application:

For the basification of chrome in chrome tanning.

### Properties:

- » BASYPOL 115 being blend of special Inorganic compounds is an effective basifying agent .
- » BASYPOL 115 provides Wet Blue with uniform pleasant colour.
- » Avoids lot to lot variation of colour.
- » Provides smooth tight grain.
- » BASYPOL 115 provides maximum exhaustion and basification of chrome.
- » BASYPOL 115 increases the pH of the bath gradually and consistantly as the product is manufactured in such a way that it makes sustained rate of release of its compound when used.
- » BASYPOL 115 eliminates the chances of looseness and avoids over basification.

### Application:

BASYPOL 115 is applied after through and through penetration of chrome and after the running time of Basic Chromium Sulfate.  
BASYPOL 115 is added undiluted.

### Usage:

Depending upon end pickle pH requirement a dosage of 0.3% to 0.5% will be enough.  
To achieve pH 4.0 it is advised to run 5 to 6 hours.  
As Basypol 115 absorbs moisture from air, it has to be stored in moisture free closed place.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

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# ZSIVIRA

## BASYPOL MD

**Chrome Basifying Agent**

Chemical composition	Blend of Organic and Inorganic compounds
Activity	98%
Appearance	White powder
Solubility	Sparingly soluble in weak acid solutions
Shelf life	Up to 6 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application:**

For the basification of chrome in chrome tanning.

### **Properties:**

- » BASYPOL MD being blend of special Inorganic compounds is an effective basifying agent .
- » BASYPOL MD provides Wet Blue with uniform pleasant colour.
- » Avoids lot to lot variation of colour.
- » BASYPOL MD catalyses with the chrome in the bath gradually and consistantly and makes the chrome complex enter the leather gradually thereby avoiding looseness and sugariness.

### **Application:**

BASYPOL MD is applied after through and through penetration of chrome and after the running time of Basic Chromium Sulfate.

BASYPOL MD is added undiluted but the bath is disturbed very frequently in order to get penetration.

### **Quantities:**

Depending upon end pickle pH requirement a dosage of 0.3% to 0.75% will be enough.

To achieve pH 4.0 it is adviced to run 5 to 6 hours.

As Basypol MD absorbs moisture from air, it has to be stored in moisture free closed place.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## BASYPOL MGO

**Chrome Basifying Agent**

Chemical composition	Blend of Organic and Inorganic compounds
Activity	98%
Appearance	White powder
Solubility	Sparingly soluble in weak acid solutions
Shelf life	Up to 6 months from the date of manufacture.
Dilution	Added Undiluted

### **Field of application:**

For the basification of chrome in chrome tanning.

### **Properties:**

- » BASYPOL MGO being blend of special Inorganic compounds is an effective basifying agent .
- » BASYPOL MGO provides Wet Blue with uniform pleasant colour.
- » Avoids lot to lot variation of colour.
- » BASYPOL MGO catalyses with the chrome in the bath gradually and consistantly and makes the chrome complex enter the leather gradually thereby avoiding looseness and sugariness.

### **Application:**

BASYPOL MGO is applied after through and through penetration of chrome and after the running time of Basic Chromium Sulfate.

BASYPOL MGO is added undiluted but the bath is disturbed very frequently in order to get penetration.

### **Quantities:**

Depending upon end pickle pH requirement a dosage of 0.3% to 0.75% will be enough.

To achieve pH 4.0 it is adviced to run 5 to 6 hours.

As Basypol MGO absorbs moisture from air, it has to be stored in moisture free closed place.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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## CATAZYME ABJ

**Enzymatic Acid Bate**

Chemical composition	Blend of Enzymes
Active pH	Active at pH 4.0 to 6.0
Appearance	Pale Beige to Off white powder
Active Temperature	Between 25 to 40° C.
Shelf life	Up to 8 months from the date of manufacture
pH 10%	7.0 to 7.5

### **Properties :**

CATAZYME ABJ is a blend of Enzymes to give good softness to the leather.

Provides uniformity in grain pattern with fullness and softness.

Will not loosen the leather even in case of mistaken usage at higher quantities as it maintains the equilibrium between the leather and the tanning bath.

### **Usage Quantity:**

For Normal Leathers : (Increase pH to 4.0)

	<b>% on Depickle</b>	<b>% on wet blue</b>	<b>Run Time</b>
Goat Skins	Upto 3.0%	Upto 5.0%	90 – 120 minutes
Sheep Skins	Upto 2.0%	Upto 5.0%	45 minutes
Calf Skins	Upto 3.0%	Upto 5.0%	90 – 120 minutes
Cattle Hides	Upto 3.0%	Upto 5.0%	90 – 120 minutes

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## CATAZYME JT

**Enzymatic Acid Bate**

Chemical composition	Blend of Enzymes
Active pH	Active at pH 4.0 to 6.0
Appearance	Pale Beige to Off white powder
Active Temperature	Between 25 to 40° C.
Shelf life	Up to 6 months from the date of manufacture
pH 10%	7.0 to 7.5

### **Properties :**

CATAZYME JT is a blend of Enzymes to give good softness to the leather.

Provides uniformity in grain pattern with fullness and softness.

Will not loosen the leather even in case of mistaken usage at higher quantities as it maintains the equilibrium between the leather and the tanning bath.

### **Usage Quantity:**

For Normal Leathers : (Increase pH to 4.0)

	<b>% on Depickle</b>	<b>% on wet blue</b>	<b>Run Time</b>
Goat Skins	Upto 3.0%	Upto 5.0%	90 – 120 minutes
Sheep Skins	Upto 2.0%	Upto 5.0%	45 minutes
Calf Skins	Upto 3.0%	Upto 5.0%	90 – 120 minutes
Cattle Hides	Upto 3.0%	Upto 5.0%	90 – 120 minutes

To get the best softness along with area increase it is strongly recommended to use enzyme accelerator ZEPROLIN ZXi / TMZ for about 2% along with CATAZYME JT.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## CATAZYME AI

**Enzyme for Area Increase**

Chemical composition	Blend of High performance Hyperactive Enzymes
Active pH	Active at pH 5.2 to 5.7
Appearance	Pale Light Tan powder
Active Temperature	Between 25 to 40° C.
Shelf life	Up to 1 year at temperatures if stored in closed containers at ambient temperature
pH 10%	7.0 to 7.5

### **Character :**

TO GET AREA INCREASE FROM 5% TO 18% DEPENDING ON ORIGIN.

### **Properties**

- » CATAZYME AI is a blend of specially cultured enzyme for hyperactive performance in leather to reduce the wrinkles and growth marks by relaxing the leather.
- » These enzymes are cultured by submerged fermentation method and are highly attracted towards the elastin present over the grain surface. The elastins are dissolved by the enzymatic action which results in the opening the fibres and grain surface even in the toughest origin. The end result is much softer leather will stretch, smooth grain along with area increase.
- » Eventhough the enzymes are active between pH 4.0 to 6.0 they are most hyperactive between pH range 5.2 to 5.7 which is to be maintained accurately by using pH indicator solution instead of pH paper.
- » To get outstanding result it is recommended to use ZEPROLIN ZXi / TMZ 2 to 3% which are enzyme accelerators. The leather will maintain its naturality and a profound area increase of about 5 to 18% can be obtained depending on origin, provided the pH is maintained properly in the bath.

Continue...

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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## CATAZYME AI

**Enzyme for Area Increase**

### **Usage Quantity:**

For Normal Leathers : (Increase pH to 4.0)

	% on Depickle	% on wet blue	Run Time
Goat Skins	Upto 0.30%	Upto 0.50%	One Hour
Sheep Skins	Upto 0.25%	Upto 0.40%	One Hour
Calf Skins	Upto 0.30%	Upto 0.50%	One Hour
Cattle Hides	Upto 0.50%	Upto 0.75%	60 to 90 Minutes

### **Tighter Origin Leathers:**

Practical Application for Tighter Origins and more particularly for Garment and soft upholstery articles:  
Quantity Based on Wet Blue Shaved Weight : Bath pH 5.2 to 5.7

Sheep/ Goat : 3 – 4%  
Cow : 2 – 3%  
Buff : 4 – 5%

To get the best softness along with area increase it is strongly recommended to use enzyme accelerator ZEPROLIN ZXi / TMZ for about 2 – 3% after finishing CATAZYME AI process and in the same bath, run for 45 minutes.

It is advised to check the pH with indicator solution rather than pH papers to get more accuracy on pH control which is the main factor in the functioning of the enzymes.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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## CATAZYME ALJ

**Enzymatic Alkali Bate**

Chemical composition	Blend of Enzymes
Active pH	Active at pH 7.5 to 9.0
Appearance	Pale Beige to Off white powder
Active Temperature	Between 25 to 40° C.
Shelf life	Up to 6 months from the date of manufacture
pH 10%	7.0 to 8.5

**Properties :**

- » CATAZYME ALJ is a blend of Enzymes to give good softness to the leather.
- » Provides uniformity in grain pattern with fullness and softness
- » Will not loosen the leather even in case of mistaken usage at higher quantities as it maintains the equilibrium between the leather and the tanning bath.

**For Normal Leathers :**

% on Pelt Weight	
Goat Skins	0.7% to 2.0%
Sheep Skins	0.5% to 1.5%
Calf	0.5% to 2.0%
Buff	0.5% to 2.0%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## CATAZYME XR

**Speciality enzyme for grain relaxing**

Chemical composition	Blend of Selective Performance Enzymes
Active pH	Active at pH 5.2 to 5.7
Appearance	Pale Light Tan powder
Active Temperature	Between 25 to 40° C.
Shelf life	Up to 6 months from the date of manufacture
pH 10%	7.0 to 7.5

**Character :**

Speciality enzyme for grain relaxing/open up.

**Properties**

- » CATAZYME XR is a combination of selective performance enzymes to be used in leather to reduce the wrinkles and growth marks by relaxing the leather.
- » CATAZYME XR is used in various articles to prepare the base work for grain opening which subsequently paves way for entry of tanning chemicals like fatliquors and syntans to penetrate the leather properly to get and achieve the desired article.
- » CATAZYME XR works well between pH range 5.2 to 5.7 which is to be maintained accurately by using pH indicator solution instead of pH paper.
- » To get outstanding result it is recommended to use ZEPROLIN ZXI / TMZ 2 to 3% which are enzyme accelerators.

Continue...

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# ZSIVIRA

## CATAZYME XR

*Speciality enzyme for grain relaxing*

### Usage Quantity:

For Normal Leathers : (Increase pH to 4.0)

	% on Depickle	% on wet blue	Run Time
Goat Skins	Upto 0.30%	Upto 1%	One Hour
Sheep Skins	Upto 0.25%	Upto 1%	One Hour
Calf Skins	Upto 0.30%	Upto 1%	One Hour
Cattle Hides	Upto 0.50%	Upto 1.5%	60 to 90 Minutes

### Tighter Origin Leathers:

Practical Application for Tighter Origins and more particularly for Garment and soft upholstery articles:

Quantity Based on Wet Blue Shaved Weight : Bath pH 5.2 to 5.7

Sheep/ Goat	: 3 – 4%
Cow	: 2 – 3%
Buff	: 4 – 5%

To get the best softness along with area increase it is strongly recommended to use enzyme accelerator ZEPROLIN ZXi / TMZ for about 2 – 3% after finishing CATAZYME XR process and in the same bath, run for 45 minutes.

It is advised to check the pH with indicator solution rather than pH papers to get more accuracy on pH control which is the main factor in the functioning of the enzymes.

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# ZSIVIRA

## ECOSLIP 100

*Drum Slip Agent/Anti Knotting Agent*

Chemical composition	Blend of Organic and Inorganic compounds
Appearance	Dull White powder
Solubility	Sparingly soluble in water
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### Field of application:

For reducing the friction and tie-up/ knotting between leathers

### Properties:

- » ECOSLIP 100 will reduce the friction between the leather in the drum during wet process thereby avoiding the heat .
- » ECOSLIP will smoothen the water lightly syrupy and hence the leathers will not tie up and hence knotting of leathers is avoided which results in leathers without damage.
- » Does not react with the leather or the chemicals used in the process and hence there will be no adverse effect to the tanning process

### Usage Quantity:

Depending upon end load of drum 0.1% to 0.5% will be enough

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# ZSIVIRA

## FORMIKZ®

Description	Dye Fixative and pH modifier
Appearance	Clear Amber Liquid
pH - value	1 or less
Solid Content	85% +/- 2%
Solubility	Freely soluble in water

### Field of application:

As dye fixing agent and pH adjuster in delimiting, tanning, retanning and dye fixing.

### Properties:

- » FORMIKZ is an innovative product to replace expensive and Highly Hazardous and Corrosive Formic Acid usage in Leather Industry.
- » FORMIKZ has the potential to completely replace Formic Acid one to one.
- » FORMIKZ is very much less hazard to effluent when compared to Formic Acid.
- » FORMIKZ is safe to handle and non-hazardous to human as it will not give any irritation or burning effect on human skins even if touched directly.
- » Being Non-Corrosive it will not affect the strength of the leather even in prolonged storage.

### The following data is the result of our R&D comparison test with FORMIC ACID and FORMIKZ\*\*:

TEST CONDUCTED	Conventional FORMIC ACID	FORMIKZ	Test Requirement
Tensile Strength (N/mm <sup>2</sup> ) ISO 3376	D1 21.92 D2 30.96	D1 21.47 D2 29.29	14
Elongation (%) ISO 3376	D1 57% D2 65%	D1 57% D2 62%	/
Tear Strength (N) ISO 3377-1	D1 54.9 D2 63.5 Avg 59.2	D1 55.1 D2 64.8 Avg 60.0	20N
Colour Fastness: Dry 5 rubs Wet 5 rubs	4/5 3/5	4/5 3/5	/
Leather pH	3.2	3.7	3.5 TO 7.0

\*The above data is pertaining to the trials conducted in our lab and leather subsequently tested with external lab under ISO method.

**Note:** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## POLCIDE 250

**Bactericide**

Chemical composition	Composition of Bactericides
Appearance	Clear to Slightly Pale Yellow liquid.
pH - value 1:10	6.0 – 8.0
Odour	Mild
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted
Stability in pH	Stable with pH range 4.0 to 10.0 and temperature upto 120°C

### Field of application:

Broad spectrum usage as Alagecide, Bactericide, Fungicide, disinfectant, antiseptic agent, surface sanitizer.

Can be used in retanning stage.

### Properties:

- » POLCIDE 250 is an effective Algacide, Fungicide and Bactericide used for treatment of various field including leather preservation, water treatment, hotel industry as sanitizer and hospitals as antiseptic agent.
- » POLCIDE 250 has a very broad usage in various industries as multipurpose cleanser and sanitizer.

### Usage Quantities:

Normally it is recommended to be used from 0.3% to 0.7% depending on requirement or depending on the material to be preserved or cleansed or sanitized.

**Note:** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## POLCIDE 250E

**Bactericide**

Chemical composition	Composition of Bactericides
Appearance	Clear to Slightly Pale Yellow liquid.
pH - value 1:10	6.0 – 8.0
Odour	Mild
Shelf life	Upto 10 months from the date of manufacture
Dilution	Added Undiluted
Stability in pH	Stable with pH range 4.0 to 10.0 and temperature upto 120°C

### **Field of application :**

Broad spectrum usage as Alagecide, Bactericide, Fungicide, disinfectant, antiseptic agent, surface sanitizer. It is the modified version of POLCIDE 250 to give milky emulsion to give more dispersion in water.

### **Properties :**

- » POLCIDE 250E is an effective Algaecide, Fungicide and Bactericide used for treatment of various field including leather preservation, water treatment, hotel industry as sanitizer and hospitals as antiseptic agent.
- » POLCIDE 250E has a very broad usage in various industries as multipurpose cleanser and sanitizer.

### **Usage Quantities:**

Normally it is recommended to be used from 0.3% to 0.7% depending on requirement or depending on the material to be preserved or cleansed or sanitized.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## POLCIDE 993

**TCMTB Free Fungicide**

Description	Fungicide – Free from TCMTB
Appearance	Transparent Pale Yellow Liquid
pH - value 10%	4.0 to 5.0
Shelf Life	Upto 1 year at temperatures between 5 and 40°C
Solubility	Freely soluble in water
Freeze Point	5°C

### **Field of application :**

Broad spectrum usage as Fungicide in all types of leathers.

### **Properties :**

- » POLCIDE 993 protects from broad range of fungus in wetblue.
- » Avoids bad odour caused by fungus and mould growth.
- » Compatible with all soaking and unhairing agents.
- » Can be used from a wide pH range and temperature upto 80°C and thus permits broad range of flexible use.

### **Usage:**

- » POLCIDE 993 is used from 0.02% to 0.3% in Pickle stage or at final tanning stage. The dosage is fixed depending upon the duration of the preservation needed. Test before fixing quantity of usage.
- » Can also be used along with fatliquor and also in re-tanning at 0.1 to 0.3%
- » POLCIDE 993 tends to freeze below 5°C and hence it should be heated and brought down to room temperature before using as homogenous solution.

Continue...

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## POLCIDE 993

TCMTB Free Fungicide

**Suggestive protection of POLCIDE 993 from Micro Organisms:**

**POLCIDE 993 protects against the following Micro Organisms:**

BACTERIA
Staphylococcus Aureus
Bacillus Megaterium
Bacillus Subtilis
Citrobacterium
Escherichia Coli
Enterobacter Cloacae
Pseudomonas Aeruginosa
Pseudomonas Fluorescens
Penicillium Caseicollum
Aureobasidium Pullulans
MOULD FUNGI
Alternaria Tenuis
Aspergillus Niger
Chaetomium Globosum
Penicillium Brevicaule
Sclerophoma Pityophila
YEASTS
Candida Albicans
Rhodotorula Rubra

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## POLCIDE L30C

TCMTB Free Fungicide

Description	Leather Preservative
Appearance	Brownish Liquid
pH - value	9 - 10
Shelf Life	Upto 10 months from the date of manufacture
Solubility	Freely soluble in water
Freeze Point	5°C

**Field of application :**

Broad spectrum usage as Fungicide cum Bactericide.

**Properties :**

- » POLCIDE L30C protects from fungus and bacteria formation in wetblue.
- » Avoids bad odour caused by fungus and mould growth.
- » Compatible with all soaking and unhairing agents.
- » Can be used from a wide pH range upto 14 and temperature upto 80°C and thus permits broad range of flexible use.

POLCIDE L30C protects against the following Micro Organisms:

BACTERIA	MOULD FUNGI
Staphylococcus Aureus	Alternaria Tenuis
Bacillus Megaterium	Aspergillus Niger
Bacillus Subtilis	Chaetomium Globosum
Citrobacterium	Penicillium Brevicaule
Escherichia Coli	Sclerophoma Pityophila
Enterobacter Cloacae	
Pseudomonas Aeruginosa	<b>YEASTS</b>
Pseudomonas Fluorescens	Cnadida Albicans
Penicillium Caseicollum	Rhodotorula Rubra
Aureobasidium Pullulans	

Used from 0.02% to 0.3% depending upon the preservation needed. Test before fixing quantity of usage. POLCIDE L30C tends to freeze below 5°C and hence it should be heated and brought down to room temperature before using as homogenous solution.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEOPALIN AS

**Dispersing Cum Emulsifying Agent**

Chemical composition	Blend of Highly active anionic emulsifiers
Appearance	Clear Transparent semi viscous liquid
Charge	Anionic
In Stability to electrolytes	Stable to acids and salts . Not stable to chrome liquors
Shelf life	Up to 10 months from the date of manufacture

### **Field of application:**

Used in wetting back and washing of wet blue and to enhance the emulsifying property of fatliquors.

### **Properties :**

- » ZEOPALIN AS provides faster rewetting of the leather and tends the fibres to open up making way for fatliquors and other auxiliaries penetrate well into the leather.
- » Provides clean grain surface.
- » In fatliquoring imparts even distribution of fat throughout the leather.

### **Application:**

When used in fatliquoring ZEOPALIN AS should be mixed well along with the fatliquors and a dilution upto 4 times should be made.

### **Usage Quantities:**

#### **% on dry weight**

Wetting Back : 0.5 – 2.0%  
Fatliquoring of crust : 0.5 – 2.0%

#### **% on shaved weight**

Wet Blue Washing : 0.5 – 1.0%  
Vegetable tanning : 0.5 – 2.0%  
Fatliquoring of wet blue : 0.5 – 1.5%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZEOPALIN DS

**Wetting cum dispersing agent**

Chemical composition	Blend of Highly active anionic emulsifiers
Appearance	Clear Transparent semi viscous liquid
Charge	Anionic
In Stability to electrolytes	Stable to acids and salts . Not stable to chrome liquors
Shelf life	Up to 10 months from the date of manufacture

### **Field of application:**

Used in wetting back and washing of even very dry wet blue.

### **Properties :**

- » ZEOPALIN DS provides faster rewetting of the leather and tends the fibres to open up making way for fatliquors and other auxiliaries penetrate well into the leather.
- » Provides clean grain surface.
- » In fatliquoring imparts even distribution of fat throughout the leather.

### **Application:**

When used in fatliquoring ZEOPALIN DS should be mixed well along with the fatliquors and a dilution upto 4 times should be made.

### **Usage Quantities:**

#### **% on dry weight**

Wetting Back : 0.5 – 2.0%  
Fatliquoring of crust : 0.5 – 2.0%

#### **% on shaved weight**

Wet Blue Washing : 0.5 – 1.0%  
Vegetable tanning : 0.5 – 2.0%  
Fatliquoring of wet blue : 0.5 – 1.5%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZEOPALIN 7794

**Biodegradable Degreasing Agent**

Chemical composition	Blend of Alkoxylates.
Appearance	Clear Transparent Liquid
Charge	Nonionic
In Stability to electrolytes	Stable to acids and salts
Shelf life	Up to 10 months from the date of manufacture

### Field of application :

ZEOPALIN 7794 can be used in both pre-tanning and post-tanning of all kinds of leathers.

### Properties :

- » ZEOPALIN 7794 is free from APEO, NPEO and nonionic product with complete REACH Compliance.
- » Can be used in soaking, liming, degreasing and also wet back.
- » Excellent degreasing properties by way of removing fat and phenomenal reduction in FFA (Free Fatty Acids) is found in all types of leather.
- » Enables the even distribution and absorption of the chrome tannage.
- » Improves the evenness of the dyeing in post tanning operations.
- » Biodegradable.

Continue...

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEOPALIN 7794

**Biodegradable Degreasing Agent**

### Usage Quantities:

The actual usage quantity depends upon the origin and nature of leather. But we recommend the below as a guideline to usage which need to be tuned as per tanning requirement need on case to case basis :

### Soaking & Liming:

Skins : 0.15% - 0.30%  
Hides : 0.10% - 0.25%

### Degreasing:

Low Fat Hide : 0.15% - 0.35% on pelt weight  
Low Fat Skins : 0.3% - 1.0% on pelt weight  
High Fat Skins : 4% - 8% on pelt weight

Bated Sheep : 1.0 - 4.0 %  
Bated Lamb : 2.0 - 6.0%  
Pickled Goat : 1.0 - 5.0%  
Pickled Sheep : 2.0 - 7.0%  
Chrome tanned split : 0.5 - 4.0%

### In Wet Back :

On Shaved Weight :  
Hides : 0.25% - 0.5%  
Skins : 0.25% - 1.0%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA



# ZSIVIRA

## ZEOPALIN UF

**Biodegradable Degreasing Agent**

Chemical composition	Blend of Poly Glycol Etheroxylates
Appearance	Clear Transparent Liquid
Activity	83 to 85%
Charge	Nonionic
pH 10%	5.5 – 6.0
In Stability to electrolytes	Stable to acids and salts
Shelf life	Up to 10 months from the date of manufacture

### **Field of application:**

Suitable for all types of leather where fat content and free fatty acid has to controlled within limits

### **Properties :**

- » Excellent degreasing properties for all types of leather.
- » Free of APEO/NPEO/OPEO.
- » Enables the even distribution and absorption of the chrome tannage.
- » Improves the evenness of the dyeing.
- » Biodegradable.

### **Application:**

- » ZEOPALIN UF is the best degreasing agent for high fat skins
- » ZEOPALIN UF provides thorough degreasing of the natural excess fat inside the leather and eliminates the free fatty acid and natural fat content drastically and prevents fatty spew formation.

Continue...

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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## ZEOPALIN UF

**Biodegradable Degreasing Agent**

### **Usage Quantities:**

Bated Sheep	: 1.0 – 3.0 %
Bated Lamb	: 1.0 – 4.0%
Pickled Goat	: 1.0 – 2.0%
Pickled Sheep	: 1.0 – 3.0%
Chrome tanned split	: Upto 1%
Wet back	: Upto 0.5%

Wet Blue depending upon origin and skin anywhere between 1% to 6% is used.  
Please take technical guidance from our technical team to apply in specific origins.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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## ZEOPALIN UFZ

**Biodegradable Degreasing Agent**

Chemical composition	Blend of Poly Glycol Etheroxylates
Appearance	Clear Transparent Liquid
Charge	Nonionic
pH 10%	5.5 – 6.0
In Stability to electrolytes	Stable to acids and salts
Shelf life	Up to 10 months from the date of manufacture

### **Field of application:**

Suitable for all types of leather where fat content and free fatty acid has to controlled within limits

### **Properties :**

- » Excellent degreasing properties for all types of leather.
- » Free of APEO/NPEO/OPEO.
- » Enables the even distribution and absorption of the chrome tannage.
- » Improves the evenness of the dyeing.
- » Biodegradable.

### **Application:**

- » ZEOPALIN UFZ is the best degreasing agent for high fat skins
- » ZEOPALIN UFZ provides thorough degreasing of the natural excess fat inside the leather and eliminates the free fatty acid and natural fat content drastically and prevents fatty spew formation.

Continue...

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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## ZEOPALIN UFZ

**Biodegradable Degreasing Agent**

### **Usage Quantities:**

Bated Sheep	: 2.0 – 3.0 %
Bated Lamb	: 2.0 – 4.0%
Pickled Goat	: 1.0 – 2.0%
Pickled Sheep	: 2.0 – 3.0%
Chrome tanned split	: Upto 2%
Wet back	: Upto 1%

Wet Blue depending upon origin and skin anywhere between 3% to 8% is used.  
Please take technical guidance from our technical team to apply in specific origins.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEOPALIN XL CON

**Biodegradable Degreasing Agent**

Chemical composition	Blend of Highly active Nonionic surface active agents and penetrative emulsifiers.
Appearance	Clear Transparent Liquid
Charge	Nonionic
In Stability to electrolytes	Stable to acids and salts
Shelf life	Up to 10 months from the date of manufacture

### **Field of application :**

Degreasing of bated and pickled pelts with high content of natural fat.

### **Properties :**

- » Excellent degreasing properties for all types of leather. Enables the even distribution and absorption of the chrome tannage.
- » Improves the evenness of the dyeing.
- » Biodegradable.

### **Application:**

The Degreasing with ZEOPALIN XL CON is best without any float. Bated Pelts are degreased after fleshing. Pickled pelts are warmed up prior to degreasing at 35°C.

The pelts are drummed for 60 – 90 minutes without float with the necessary quantities. The dissolved and emulsified fat is removed by souring in 200 to 300% water at 35°C. In order to avoid acid swelling pickled pelts have to be washed thoroughly.

### **Usage Quantities:**

Bated Sheep	: 0.5 – 2.0 %
Bated Lamb	: 1.0 – 2.0%
Pickled Goat	: 1.0 – 2.0%
Pickled Sheep	: 1.0 – 3.0%
Chrome tanned split	: Upto 1%

The above suggestions may differ from origin to origin. It is recommended to take our technical advice before application. This product tends to form coagulated appearance in low climatic conditions. On such conditions it is recommended to mix well before every use. The Character and application remains same.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

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# ZSIVIRA

## ZEOPALIN XLD

**Biodegradable Degreasing Agent**

Chemical composition	Blend of Nonionic surface active agents and emulsifiers.
Appearance	Clear Transparent Liquid
Charge	Nonionic
In Stability to electrolytes	Stable to acids and salts
Shelf life	Up to 10 months from the date of manufacture

### **Field of application :**

Degreasing of bated and pickled pelts with high content of natural fat.

### **Properties :**

- » Excellent degreasing properties for all types of leather. Enables the even distribution and absorption of the chrome tannage.
- » Improves the evenness of the dyeing.
- » Biodegradable.

### **Application:**

The Degreasing with ZEOPALIN XLD is best without any float. Bated Pelts are degreased after fleshing. Pickled pelts are warmed up prior to degreasing at 35°C.

The pelts are drummed for 60 – 90 minutes without float with the necessary quantities. The dissolved and emulsified fat is removed by souring in 200 to 300% water at 35°C. In order to avoid acid swelling pickled pelts have to be washed thoroughly.

### **Usage Quantities:**

Bated Sheep	: 1.0 – 4.0 %
Bated Lamb	: 2.0 – 6.0%
Pickled Goat	: 1.0 – 5.0%
Pickled Sheep	: 2.0 – 7.0%
Chrome tanned split	: 0.5 – 4.0%

The above suggestions may differ from origin to origin. It is recommended to take our technical advice before application. This product tends to form coagulated appearance in low climatic conditions. On such conditions it is recommended to mix well before every use. The Character and application remains same

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## SURFAZOL OC

**Biodegradable Degreasing Agent**

Chemical composition	Alcohol Ethoxylate
Appearance	Clear Transparent Liquid
Activity	98%
Charge	Nonionic
pH 10%	5.5 – 6.0
In Stability to electrolytes	Stable to acids and salts
Shelf life	Up to 1 year at temperatures between 5 and 40° C.

### **Field of application:**

Speciality Biodegradable degreasing agent for high fat degreasing.

### **Properties :**

- » Excellent degreasing properties specially formulated for high fat origin degreasing.
- » Provides thorough degreasing of the natural excess fat inside the leather and eliminates the free fatty acid and natural fat content drastically and prevents fatty spew formation.
- » Free of APEO/NPEO/OPEO.
- » Enables the even distribution and absorption of the chrome tannage.
- » Facilitates uniform distribution of fatliquors and syntans
- » Fully Biodegradable.

### **Application:**

Depending upon origin and fat content in the skin it is recommended to use between 1% to 6% .

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# ZSIVIRA

## ZEPROLIN CDT

**Chrome Stripping cum Bleaching Agent**

Composition of Chemicals	Blend of Organic Compounds
Appearance	Whitish Powder
Solids	98%
pH (1:10)	1.0

### **Properties:**

- » ZEPROLIN CDT is a blend of special organic compounds which will readily react directly with the chrome present in the leather and strips it out to the maximum possible extent.
- » ZEPROLIN CDT can also be used to bleach both chrome and vegetable tanned leathers.
- » ZEPROLIN CDT is also effective in removing iron stains caused by mechanical operations.

### **Usage :**

#### **For Detanning and Stripping out Chrome :**

After Wetback, with 100% water float, Use upto 3% ZEPROLIN CDT and run for 90 minutes. Leave Overnight and drain the water and continue further process.

#### **For Bleaching :**

For Vegetable Leathers : 0.5% Upto 1%

For Wet Blue : 0.4% Upto 1%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZEPROLIN LA Liq

**Liming Agent for use in unhairing stage in leather tanning**

Chemical composition	Blend of amino acids
Appearance	Colourless to Yellowish liquid
pH	10.0 to 12.0
In Stability to electrolytes	Stable to acids and salts . Not stable to chrome liquors
Shelf life	Up to 8 months from the date of manufacture

### Field of application:

Used in unhairing stage in beamhouse.

### Properties :

- » ZEPROLIN LA Liq accelerates the dissolution of lime and improves the penetration.
- » More Uniform Swelling and Plumping thereby provides good body.
- » Avoids growth mark.
- » Minimises the wrinkle development and hence provides flat uniform leather with clear grain.
- » Due to avoiding of wrinkles there will be good area increase in the leather.

### Application:

ZEPROLIN LA Liq is used in the beginning and also used partially at the end of liming process to complete the lime uptake in full.

### Usage Quantities:

After initial addition run for 30 – 40 minutes followed by addition of sulphide and lime system.

For Bovine Hides : 1 – 2%  
 For Calf Skins : 0.75% - 1.75% in the beginning and 0.25% at the end.  
 For Skins : 1% - 1.5% for direct liming  
 : 0.5% - 1% in the paste for paint method  
 : 0.5% - 1% in the drum

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEPROLIN DLA

**Deliming Agent in leather tanning**

Chemical composition	Blend of organic and inorganic compounds
Appearance	White Powder
pH 1%	4.0 - 4.5
In Stability to electrolytes	Stable to acids and salts . Not stable to chrome liquors
Shelf life	Up to 8 months from the date of manufacturing

### Field of application:

Used as deliming agent in beamhouse in leather tanning.

### Properties :

- » Very effective deliming agent for all types of leathers.
- » Produces Wetblue with almost ZERO WRINKLES and the wetblue will have tighter bellies and no shanks.
- » Provides Wetblue with uniform and bright colour.

### Application:

ZEPROLIN DLA is used in the beginning of liming process to complete the deliming process before pre-wash.

ZEPROLIN DLA should be added both in pre deliming stage and main deliming stage. The water float has to be kept lesser for speedier penetration and complete deliming.

It can also be used in pickling to mask chrome salts for better exhaustion of chrome bath.

### Usage Quantities:

For Cow Hides : 2 – 3% (based on unsplit limed pelt weight)  
 Thorough washing before deliming is needed. 20% of total dosage in pre deliming for 20 – 30 minutes followed by drain and addition of rest of the dosage helps achieve faster and complete deliming.

For Calf Skins : 0.5% - 1.5% in the beginning and 0.25% at the end.  
 For Skins : 0.51% - 1.25% for direct liming  
 In Pickling for chrome exhaustion : 0.5% - 1%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEPROLIN FSQ

**Formaldehyde Sequestrant**

Composition of Chemicals	Blend of Sequestering Compounds
Appearance	Clear Transparent Liquid
Solids	47 - 50%
pH (1:10)	6.0

### Properties:

- » ZEPROLIN FSQ is a blend of sequestering compounds which will readily react directly with any free formaldehyde present in the leather and also in the tanning bath.
- » ZEPROLIN FSQ is a Premium Formaldehyde Sequestering agent and NOT a regular inorganic Formaldehyde Masking agent. Hence the reduction and removal of formaldehyde will be permanent in case of ZEPROLIN FSQ. Whereas in case of Normal Inorganic Masking agents, the formaldehyde is masked and not removed. So the formaldehyde will resurface once the masking agent gets inactivated over a period of time.
- » ZEPROLIN FSQ will catalyse the free formaldehyde and will nullify its presence in the leather in irreversible form as it converts the FREE FORMALDEHYDE into FORMIC ACID and fix it in the leather. This will make the leather free of formaldehyde content.
- » ZEPROLIN FSQ will not have any negative reactions or negative impact on the leather or the dye.
- » ZEPROLIN FSQ is best suitable for wet white and pastel shade dyeing.

### Usage:

After fixing the dye finally, in fresh bath with 100% float, ZEPROLIN FSQ is added 2% on shaved weight into the drum and run for 60 minutes enabling the product to sequester the free formaldehyde.

ZEPROLIN FSQ can also be sprayed on the flesh side with diluting with water on 1:3 ratio to get Free Formaldehyde test passed. But the best method for permanent solution to remove and to minimise free formaldehyde is to give in drum after dye fixing.

**Note:** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEPROLIN 100

**Multifunctional Polymer Chelating Agent**

Chemical composition	Blend of chelatants Salts of Phosphated Polymers
Activity	ca. 98 %
Appearance	Pale White free flowing powder
pH - value 1 : 10	7.5 - 8.5
Charge	Anionic
Shelf life	Up to 1 year from the date of manufacture
Dilution	Added Undiluted

### Field of application :

Multifunctional use from raw to dyeing.

### Properties :

- » ZEPROLIN 100 when used in pit enhances the penetration of wattle and natural extracts quickly and evenly into the leather.
- » Provides Even and Deep Penetration of dyes and avoids dye patches .
- » Provides full uptake of fatliquors and syntans .
- » In Degreasing it hydrolysis the fats and makes even distribution of fats throughout the leather.
- » Reduces the water hardness predominantly thereby helps uptake of all tanning auxiliaries.
- » Provides even shade with lustre for Suedes and Drum Dyed Leathers.

### Usage :

In Pit Tannage	: 0.5% - 1% ZEPROLIN 100
In Chrome Tanning	: 1.0% - ZEPROLIN 100
In Degreasing / Wet Back	: 0.25 - 0.5% ZEPROLIN 100
In Retanning & Fatliquoring	: 0.5% - 1% ZEPROLIN 100
In Dyeing	: 0.5% - 1% ZEPROLIN 100

**Note:** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEPROLIN GW

**Polymer based Water Sequestrant**

Chemical composition	Polymer condensated with sequestrants
Activity	ca. 98 %
Appearance	Pale White free flowing Hygroscopic powder
pH - value 1 : 10	7.5 – 8.5
Charge	Anionic
Shelf life	Up to 1 year from the date of manufacture
Dilution	To be diluted in water 1: 5 and added to drum

### **Field of application:**

Multifunctional use from raw to dyeing.

### **Properties :**

- » ZEPROLIN GW provides Even and Deep Penetration of dyes and avoids dye patches .
- » Provides full uptake of fatliquors and syntans .
- » Reduces the water hardness predominantly thereby helps uptake of all tanning auxiliaries.
- » Provides even shade dyeing with luster for Suedes and Drum Dyed Leathers.
- » Provides inner softness with roundness even in thick leathers.

### **Usage Quantities:**

In Chrome Tanning : 0.5% – 1.5% ZEPROLIN GW  
 In Retanning & Fatliquoring : 0.5% – 1.5% ZEPROLIN GW  
 In Dyeing : 0.5% – 1% ZEPROLIN GW

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEPROLIN ACT 100

**Finishing Cross Linker**

Chemical composition	Based on Resinous compound
Appearance	Milky Liquid
pH - value 1 : 10	2.0 – 4.0
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### **Field of application :**

To act as cross linker to thicken the Season mix Solution of Resin, PU, wax and protein mixtures.

### **Properties :**

- » ZEPROLIN ACT 100 is highly capable of CROSS LINKING to make a HOMOGENISE season solution without affecting the character of the chemicals mixed in the season solution.
- » It can be used in different stages at variable pH to obtain various results depending upon the viscosity needed.
- » Does not affect the stretch and elasticity property of the season solution.
- » Facilitates even and smooth coating without film break.
- » Improves the functionality of the season solution and enhances continuous film formation.
- » Does not affect the shelf life of the season solution.

### **Usage Quantities:**

Depending upon the viscosity needed, it is recommended to use upto 4% on the quantity weight of the season solution.

ZEPROLIN ACT 100 has to be added in the season solution slowly with continuous stirring. It is not advised to pour all the quantity of ZEPROLIN ACT 100 at a stretch and mix. Always it has to be added with SLOW AND STEADY STIRRING.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZEPROLIN CW5

### *Iron Stain Remover*

Chemical composition	Blend of Organic acid with polar solvents
Appearance	Clear Liquid
pH - value 1 : 10	1.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Can be added Undiluted
Shelf life	Up to 1 year at temperatures between 5 and 40° C.

#### **Field of application:**

As sequestrant to prevent and remove iron stains in all type of leather production where Iron III Oxide formation is to be avoided

#### **Properties:**

- » ZEPROLIN CW5 is a multifunctional product which acts as both iron stain remover cum avoider and as water softening agent.
- » ZEPROLIN CW5 dissolves the Iron III Oxide formed in contaminated water and avoid formation of Iron stains over the leather.
- » ZEPROLIN CW5 will be of more use in vegetable tanned leathers where the leather is most prone to Iron III Oxide formation over the leather.
- » ZEPROLIN CW5 enhances even and leveled deposition of dyes.

#### **Usage Quantities:**

Usage from 0.3% - 1.0% depending upon leather and water condition

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZEPROLIN DFS

### *Defoaming Agent*

Chemical composition	Emulsion of Polysiloxane
Appearance	Milky Liquid
pH - value 1 : 10	6.0 - 7.0
Charge	Anionic
Shelf life	Up to 8 months from the date of manufacture

#### **Properties and Application :**

ZEPROLIN DFS is a strong defoamer used in various industries to avoid and also to clear foam during and after the process.

#### **Usage Quantities:**

Depending upon the industry and usage, it is recommended to use 0.2 - 1%.

The product has to be stirred well before use as settling is possible on storage.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZEPROLIN PHR

**pH Enhancer**

Chemical composition	Sulfonic Acid Derivative
Appearance	Reddish Liquid
pH - value 1 : 10	9.5 - 10
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Regulating and Enhancing the pH of the final Leather.

### **Properties :**

- » Reacts with the free acid radicals present in the leather and Completely neutralises the free acid in the leather after fixing with Formic Acid and increases the pH of the leather upto 5.1
- » Does not react with the dye molecules negatively and hence dye uniformity is not affected.
- » pH increase will stay permanent on the leather.
- » Does not loosen the leather.
- » In vegetable tanning it does not harshen grain structure as it masks the astringency of the vegetable extracts.
- » Enhances and helps dye levelling.
- » Enhances dye levelling and improves perspiration properties.

### **Usage Quantities:**

Normally 2% is used after fixing .  
To be added in fresh batch after draining out the Formic acid fixing bath.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZEPROLIN ZC6

**Chrome VI Retardant**

Composition of Chemicals	Blend of Organic & Inorganic Compounds
Appearance	Clear to Yellow Liquid. Turns Pinkish on ageing but without any change in properties or usage.
pH (1:10)	3.0 to 4.0

### **Properties:**

- » ZEPROLIN ZC6 is a blend of organic and Inorganic compounds which can be used in the final drum operation after dye fixing and Formaldehyde removal treatment with ZEPROLIN FSQ. The best result is obtained by spraying before dust binder coat.
- » ZEPROLIN ZC6 will protect the leather from oxidizing and eliminates the chance of the formation of Chrome VI.
- » Due to condensed liquid form, ZEPROLIN ZC6 will readily reacts with the leather and provides a protective coat against Chrome VI formation.

### **Usage :**

After fixing the dye finally, In fresh bath with 50% float, ZEPROLIN ZC6 is added 2% to 4% on shaved weight into the drum and run for 45 to 60 minutes enabling the product to fix on leather surface.

No washing of leather should be done after using ZEPROLIN ZC6.

In case of Using ZEPROLIN FSQ for FORMALDEHYDE SEQUESTERING, it is advised to use ZEPROLIN ZC6 after the completion of 60 minutes of feeding of ZEPROLIN FSQ and must be continued in the same bath.

ZEPROLIN ZC6 can also be sprayed by diluting 1:2 with water before coating dust binder.

The product will change from colourless to reddish liquid on ageing. But the character of the product and its usage remains unaffected

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZEPROLIN ZXi

*Tanning Cross Linker*

Chemical composition	Organic Compounds cross linked with amines
Appearance	Pale Brown Liquid
pH - value 1 : 10	6.5 – 7.5
Charge	Amphoteric
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### **Field of application :**

Multifunctional use from Bating to Tanning.

### **Properties :**

- » ZEPROLIN ZXi is highly capable of opening even very hard grain structures/fibres without affecting the smoothness of grain surface.
- » It can be used in different stages at variable pH to obtain various results such as penetrating agent, dye leveling, bath exhaustion.
- » Provides smooth, flat surface even in leather which have very harsh and hard grain surface.
- » Provides good stretch and elasticity property which is more needed for garment and gloving leathers.
- » Facilitates even dyeing.
- » Improves the functionality of fatliquors namely softness as it releases the required amide and catalyses the fats in fatliquors thereby enhancing the fats to enter and spread evenly inside the leather.
- » It is applied in Bating bath to open the grain after the addition of Bate.

Continue...

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZEPROLIN ZXi

*Tanning Cross Linker*

### **Usage Quantities:**

- In Bating of Wet Blue : 6% – 10% ZEPROLIN ZXi on shaved weight
- In Crusting : 4% – 8% ZEPROLIN ZXi on crust weight
- In Fatliquoring : 3% – 4% ZEPROLIN ZXi
- In Dyeing : 2% – 3% ZEPROLIN ZXi

The product tends to freeze to needles below 15°C. But the character and application remains unaffected.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## DYNAMOL GLH

*Dispersion Fatliquor*

Chemical composition	Blend of Surfactants and Dispersants
Solids	52 ± 2%
Appearance	Off White Fluid
pH - value 1 : 10	5.5 – 6.5
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application :**

DYNAMOL GLH is a multi purpose fatliquor which can be used at various stages of leather making,

### **Properties and Application:**

- » DYNAMOL GLH has excellent wetting properties when used in wetback. Even very dry/hard leathers like Goat and Pig skins can be rewetted with DYNAMOL GLH enabling further uptake of tanning chemicals.
- » Excellent dyeability and enhances dye brilliancy.
- » Produces excellent glossy sheen on suede.
- » Avoids greasiness as it has outstanding emulsifying property.
- » DYNAMOL GLH improves the softness and also helps penetration of other fatliquors.

### **Usage Quantities:**

In Pickling and Chrome Tanning : 1% – 2%  
 Rechrome & General Fatliquoring : upto 5%  
 Wet Back : upto 2%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## DYNAMOL HPZ

Chemical composition	Synthetic Oil compound
Fattening substance	100 %
Solubility in Water	Insoluble
Storage	Up to 10 months from date of manufacture.

### **Field of application :**

Multipurpose product for usage in both wet end and finishing

### **Properties :**

- » Provides excellent water proofing effect when used along with water proof fatliquors.
- » When used along with DYNAMOL HPZ it provides the grain with glittering shiny effect along with high burnish ability.
- » When used in combination with fatliquors it improves the tear strength.
- » When used in finishing as a single product as spray it provides pullup effect.
- » When used with roller coat waxes, it provides excellent area coverage along with quick drying.
- » When used as a mixture with holt melt waxes, it will reduce the possibility of whitening of the waxes on leather surface.
- » Exhibits Fogging Value upto Minus 20°C when used in proper system.
- » Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## DYNAMOL MF

Chemical composition	Esterified synthetic oils and Succinic Esters
Fattening substance	50 ± 2%
Appearance	Opaque Paste
pH - value 1 : 10	6.5 – 7.5
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from date of manufacture.
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### Field of application:

Fatliquor for very soft, High lightfast, light weight and odourless leathers.

### Properties and Application:

- » DYNAMOL MF gives excellent softness with body to the leather.
- » Very Good light fastness.
- » Provides Fullness and smooth touch and even dyeing.
- » Best for Milled Leathers, Softies, Upholstery, Garment and Gloving where extraordinary softness is required.
- » Best for wet white and pastel shade dyeing.
- » Can be used as a single fatliquor for upholstery and gloving.

### Usage Quantities:

Buff Upholstery	: Upto 15 %
Glove leather	: Upto 10%
Mens Garments	: Upto 6%
Ladies Garments	: Upto 10%
Milled Articles	: Upto 15%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## DYNAMOL LSW CON

*Bio Polymer Based Fat Liquor*

Chemical composition	Blend of Fatty Esters and Bio Polymers
Appearance	Pale Beige Viscous Paste
pH - value 1 : 10	5.0 – 7.0
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### Field of application:

Fatliquor for bouncy, lightfast and odourless leathers.

### Properties and Application:

- » DYNAMOL LSW CON improves the tensile strength of the leather by relaxing the fibres and penetrating into the leather.
- » Very Good light fastness
- » Provides Softness with fullness.
- » Best for light weight leathers.
- » When added in Pickling after chrome DYNAMOL LSW CON improves the natural fat and chrome distribution.
- » When given in dyeing it provides even distribution of dyestuffs with brilliant shade.
- » In soaking it improves strength of the leather.

### Usage Quantities:

Chrome Tanning	: 1 %
Soaking	: upto 2%
Rechroming	: upto 2%
Fatliquoring	: upto 6%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## DYNAMOL LANZ

**Lanolin Based Fatliquor**

Chemical composition	Based on High quality Lanolin
Appearance	Brown Turbid Fluid
Fattening substance	55 %
pH - value 1 : 10	5.0 – 7.0
Charge	Anionic
Stability to electrolytes	Highly stable to acids and salts under usual tannery conditions.
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application :**

Special fatliquor for nourishment of heavy leathers and for burnish leathers

### **Properties :**

- » DYNAMOL LANZ provides excellent lubrication and nourishment even in very thick and hard leathers.
- » Minimises and avoids grain crack in Vegetable tanned Leathers.
- » Provides excellent burnish effect.
- » Best for shiny articles which also needs burnish effect.
- » Used along with DYNAMOL HPZ to give dark burnish effect.
- » Compatible with all other fatliquors.

### **Usage :**

In Chrome Tanned Leathers : Upto 5%  
 In Vegetable Tanning : Upto 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## DYNAMOL SWP

**Waterproof Fatliquor**

Chemical composition	Blend of Hydrocarbons, Esters with Hydrophobic waxes
Appearance	Off White Paste
pH - value 1 : 10	6.5 – 7.5
Active Content	50 to 55%
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Not Stable in chrome liquors
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application :**

DYNAMOL SWP is used to produce High Quality Water Proof and Water Repellent Leathers.

### **Properties :**

- » DYNAMOL SWP provides excellent Water Proof and Water Repellent Character to the leathers.
- » It can be used as a single fatliquor for Water Proof and also for soft gloves and garments and provides remarkable softness with stretch.
- » Best for wet white tanning and pastel shade dyeing.
- » Doesn't highlight the defects on the leather surface.
- » Excellent Light Fastness & Heat Resistance.
- » For Best water proofing effect capping with mineral tanning salts in fresh bath after washing is suggested.
- » It is advised to avoid hydrophilic products in the tanning to get required water proof effect.

### **Usage :**

Pre Fatliquoring : 5%  
 Garment Nappa : Upto 10%  
 Water Proof Leathers : Upto 15%  
 Main Fatliquoring : 5%  
 Gloving : 5%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## DYNAMOL 327

**Phosphoric Ester Fatliquor**

Chemical composition	Blend of Synthetic Oils with phosphorylated alcohol esters & Polymers
Fattening substance	50 %
Appearance	Reddish Semi Viscous Oil
pH - value 1 : 10	5.5 – 6.5
Charge	Nonionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

DYNAMOL 327 is mainly used for high quality leather as shoe upper, goods, gloving and garment in the main fatliquoring bath. Fatliquor for soft, lightfast and odourless leathers.

### **Properties and Application:**

- » Having Phosphoric esters bridged with selective Synthetic oils DYNAMOL 327 provides soft and light weight leathers.
- » Very Good light fastness.
- » Softness with fullness.
- » Best for garments, Upper, Upholstery and softies.
- » Provides good body with selective filling.
- » Disperses and distributes other fatliquors.
- » Even dyeing and dye levelling.

### **Usage Quantities:**

Garment leather sheep	: Upto 6% DYNAMOL 327
Upper leather	: 5% DYNAMOL 327
Garment Suedes	: 2% – 4% DYNAMOL 327
Shoe Nappa	: Upto 6% DYNAMOL 327

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL 94Z

**Ester Based Fatliquor**

Chemical composition	Blend of Synthetic Oils and esters
Solids	60 %± 2%
Appearance	Reddish Brown fluid
pH - value 1 : 10	5.0 – 6.5
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL 94Z is mainly used in the main fatliquoring bath for soft gloving, garment and upholstery leather where ever extreme softness is needed.

Can be used in the chrome tanning and retanning, in the main fatliquor.

### **Properties and Application:**

- » Good light fastness
- » Very good softness with light weight
- » Gives waxy touch and silky feel.
- » Excellent fullness with body and inner softness.

### **Usage Quantities:**

Can be used as a single fatliquor upto 10% to achieve very high softness. The combination of fatliquors to be incorporated on case to case basis depending on final article to be produced.

However as the product is compatible with all the normal fatliquors and auxiliaries, the quantity of usage depends on the individual requirement of the article.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL B3M

**Fatliquor based on Alcohol Ester**

Chemical composition	Blend of Fatty Alcohol esters
Solids	55 %± 2%
Appearance	Reddish Brown fluid
pH - value 1 : 10	5.0 – 6.5
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL B3M is mainly used in the main fatliquoring bath for soft gloving, garment and upholstery leather where ever extreme softness is needed. Can be used in the chrome tanning and retanning, in the main fatliquor.

### **Properties and Application:**

- » Good light fastness
- » Very good softness with light weight
- » Gives waxy touch and silky feel.
- » Excellent fullness with body and inner softness.

### **Usage Quantities:**

Can be used as a single fatliquor upto 15% to achieve very high softness. The combination of fatliquors to be incorporated on case to case basis depending on final article to be produced.

However as the product is compatible with all the normal fatliquors and auxiliaries, the quantity of usage depends on the individual requirement of the article.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL CX20

Chemical composition	Blend of Synthetic Oils
Active Solids	55 ± 2%
Appearance	Pale Brown Oil
pH - value 1 : 10	5.5– 6.5
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

Fatliquor for soft, lightfast and odourless leathers.

ZSIVIROL CX20 is mainly used for high quality leather as gloving, light weight upholstery and garment in the main fat liquoring bath.

### **Properties and Application:**

- » Having Micro Molecules ZSIVIROL CX20 penetrates & fixes well into the leather fibres and therefore provides a long-lasting softness.
- » Very Good light fastness
- » Very High softness
- » Gives waxy touch and silky feel.
- » Best for light weight leathers.
- » Good Grain smoothness

### **Usage Quantities:**

Garment leather sheep	: Upto 6%
Glove leather	: Upto 6%
Garment Suedes	: 4% - 5%
Upholstery	: 6 % - 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL IC2N

**Synthetic Fatliquor**

Chemical composition	Blend of Synthetic Oils
Active Solids	55 to 60 %
Appearance	Brown oil to semi viscous fluid
pH - value 1 : 10	5.0 – 6.0
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from the date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL IC2N is mainly used for high quality leather as gloving and garment in the main fatliquoring bath. Fatliquor for soft, lightfast and odourless leathers.

### **Properties and Application:**

- » ZSIVIROL IC2N penetrates & fixes well into the leather fibres and therefore provides a long-lasting softness.
- » Very Good light fastness.
- » Good softness.
- » Can be used for Pastal shades.

### **Usage Quantities:**

Garment leather sheep : Upto 6%  
 Glove leather : 4 – 5%  
 Garment Suedes : 3 – 4%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL Q5

**Synthetic Fatliquor**

Chemical composition	Blend of Synthetic Oil with softeners
Solids	55 %
Appearance	Hazy oil to semi fluid
pH - value 1 : 10	5.5 – 7.0
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 10 months at temperatures between 5 and 40° C.
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL Q5 is a universal fatliquor which can be used for all articles from crusting to dyeing.

Can be used for Garments, Uppers, Upholstery, Lining and Split and Suede articles.

### **Properties and Application:**

- » ZSIVIROL Q5 penetrates well into leather fibres and therefore provides a long-lasting softness.
- » Good softness with smooth surface touch.
- » Gives good inner softness.
- » Good Light fastness.

### **Usage Quantities:**

Depending upon the article, it is suggested to use upto 5% ZSIVIROL Q5 in combination with other fatliquors.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL S12

**Synthetic Fatliquor**

Chemical composition	Blend of Synthetic Oils with Etheroxylates
Fattening substance	55%
Appearance	Pale Yellow Translucent Oil
pH - value 1 : 10	5.5 – 6.5
Charge	Nonionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. stable in chrome liquors
Shelf life	Up to 10 months from the date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL S12 is a general purpose fatliquor used for all kind of articles such as gloving , garment, softies, shoe uppers and upholstery in the main fatliquoring bath. Fatliquor for soft, lightfast and odourless leathers.

### **Properties and Application:**

- » Having Etheroxylates bridged with synthetic oils ZSIVIROL S12 penetrates & fixes well into the leather fibres and therefore provides a long-lasting softness.
- » Very Good light fastness.
- » Softness with roundness.
- » Best for white and pastal shades and also wet white leathers.
- » Disperses and distributes other fatliquors.
- » Enhances dye brilliancy and dye levelling.

### **Usage Quantities:**

Garment leather sheep	: Upto 8 % ZSIVIROL S12
Glove leather	: Upto 6% ZSIVIROL S12
Garment Suedes	: 4 % - 6 % ZSIVIROL S12
Uppers	: Upto 8% ZSIVIROL S12

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL 400

**Sulfited Fish Oil**

Chemical composition	Less odour sulfited fish oil with synthetic oils and emulsifiers
Solids	60 %± 2%
Appearance	Reddish Brown oil
pH - value 1 : 10	6.0 – 7.0
Charge	Anionic
In Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable to Chrome
Shelf life	Upto 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

Fatliquor for soft garment , goods and upholstery leathers

### **Properties and Application:**

- » Provides leather with good softness and soft touch.
- » Provides excellent inner softness.
- » Good Light Fastness.
- » Compatible with other fatliquors.
- » Can be used in chrome tanning , retanning and main fatliquoring.

### **Usage Quantities:**

In chrome tanning	: 0.5 – 2.0% ZSIVIROL 400
In chrome retanning	: 1.0 – 2.0% ZSIVIROL 400
In main fatliquor for garment	
Goods & upholstery leathers	: 3.0 – 8.0% ZSIVIROL 400

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# ZSIVIRA

## ZSIVIROL FB2A

*Odour Less Fishoil*

Chemical composition	Oxidised & Sulfited fish oil with dispersants and emulsifiers
Solids	60 %
Appearance	Reddish Brown oil
pH - value 1 : 10	5.5 – 6.5
Charge	Anionic
In Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable to Chrome
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

Fatliquor for soft garment, goods and upholstery leathers

### **Properties and Application:**

- » Provides leather with good softness and soft touch.
- » Provides excellent inner softness.
- » Fair Light Fastness.
- » Compatible with other fatliquors.
- » Can be used in chrome tanning, retanning and main fatliquoring.

### **Usage Quantities:**

In chrome retanning: : 1.0 – 2.0% ZSIVIROL FB2A  
 In main fatliquor for garment : 3.0 – 8.0% ZSIVIROL FB2A  
 Goods & upholstery leathers

*Note: The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL FSİ

*Sulfited Fish Oil*

Chemical composition	Oxidised & Sulfited fish oil with synthetic oils and emulsifiers
Solids	55 to 60 %
Appearance	Reddish Brown oil
pH - value 1 : 10	5.5 – 7.0
Charge	Anionic
In Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable to Chrome
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

Fatliquor for soft garment, goods and upholstery leathers

### **Properties and Application:**

- » Provides leather with good softness and soft touch.
- » Provides excellent inner softness.
- » Fair Light Fastness.
- » Compatible with other fatliquors.
- » Can be used in chrome tanning, retanning and main fatliquoring.

### **Usage Quantities:**

In chrome tanning : 0.5 – 2.0% ZSIVIROL FSİ  
 In chrome retanning : 1.0 – 2.0% ZSIVIROL FSİ  
 In main fatliquor for garment : 3.0 – 8.0% ZSIVIROL FSİ  
 Goods & upholstery leathers

*Note: The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## ZSIVIROL TRG1

**Triglyceride**

Composition of Chemicals	Blend of Sulfited Triglycerides
Appearance	Brown Viscous Paste
Solids	95% to 97%
pH	5.0 – 6.5
Charge	Anionic
Electrolyte Stability	Highly Stable to acids, salts and alkalies. Stable in Chrome Liquor
Shelf Life	Upto 10 months from the date of manufacture

### **Properties and Application:**

- » ZSIVIROL TRG1 is a speciality fatliquor for all kind of leathers which needs very high softness.
- » It provides leather with extraordinary softness and fullness.
- » It is highly penetrative and provides excellent permanent inner softness with roundness.
- » Provides smooth grain with stretch.
- » Good Light fastness.
- » Best for gloving, garment, upholstery and shoe nappa and washable articles.
- » Retains softness of the leather even after continual washing and hot tumbling with enzymes.

### **Application :**

Soft Nappa	: Upto 5%
Sheep Garment	: Upto 4%
Suede/Split Suede	: Upto 4%
Shoes	: Upto 3%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL 808

**Bio Polymer based Fatliquor**

Composition of Chemicals	Blend of Phospholipids with Bio Polymers
Appearance	Brown Viscous Paste
Solids	80% ± 2%
pH	5.5 – 6.5
Charge	Anionic
Electrolyte Stability	Highly Stable to acids, salts and alkalies. Stable in Chrome Liquor
Shelf Life	Upto 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Properties and Application:**

- » ZSIVIROL 808 is a speciality fatliquor for all kind of leathers which needs very high softness.
- » It provides leather with extraordinary softness and fullness.
- » It is highly penetrative and provides excellent permanent inner softness with roundness.
- » Provides smooth grain with stretch.
- » Best for gloving, garment, upholstery and shoe nappa and washable articles.
- » Retains softness of the leather even after continual washing and hot tumbling with enzymes.

### **Application :**

Soft Nappa	: Upto 4%
Sheep Garment	: Upto 4%
Suede/Split Suede	: Upto 4%
Shoes	: Upto 3%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL 606

**Bio-Polymer Fatliquor**

Chemical composition	Blend of Bio-Polymers
Fattening substance	40 % ± 2%
Appearance	Pale Beige Paste
pH - value 1 : 10	6,5 – 7,5
Charge	Nonionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable to chrome upto some extent
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### Field of application:

ZSIVIROL 606 is mainly used for high quality leather as Chrome Free Leathers, shoe softies, gloving and garment in the main fatliquoring bath. Fatliquor for soft, lightfast and odourless leathers.

### Properties and Application:

- » Very Good light fastness.
- » Softness with roundness.
- » Best for white and pastal shades .
- » Provides good body with filling on loose portions.
- » Provides fullness with softness.
- » Provides even milling.

### Usage Quantities:

Garment leather sheep	: Upto 8 % ZSIVIROL 606
Glove leather	: 5% ZSIVIROL 606
Garment Suedes	: 2 % - 4 % ZSIVIROL 606
Shoe Softy	: Upto 8% ZSIVIROL 606

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## ZSIVIROL FL506

**Polyoxyethylene Based Fatliquor**

Chemical composition	Blend of Synthetic Oils with Polyoxyethylene Ethers
Fattening substance	55 %
Appearance	Off White to Pale Beige Fluid
pH - value 1 : 10	5,5 – 7,0
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Not stable in chrome liquors
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### Field of application:

ZSIVIROL FL 506 is mainly used for high quality leather as shoe upper, goods, gloving and garment in the main fatliquoring bath. Fatliquor for soft, lightfast and odourless leathers.

### Properties and Application:

- » Having Polyoxyethylene ethers bridged with synthetic oils ZSIVIROL FL506 penetrates & fixes well into the leather fibres and therefore provides a long-lasting softness.
- » Very Good light fastness.
- » Softness with roundness.
- » Best for white and pastal shades and wet white leathers.
- » Provides good body with filling on loose portions.

### Usage Quantities:

Garment leather sheep	: Upto 5% ZSIVIROL FL506
Glove leather	: 3% ZSIVIROL FL 506
Garment Suedes	: 2 % - 4 % ZSIVIROL FL 506
Uppers	: Upto 5% ZSIVIROL FL506

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL MLI-N

**Synthetic Fatliquor**

Chemical composition	Blend of Synthetic Oils & sperm synthetic substitutes
Active Solids	55 to 60 %
Appearance	Reddish oil/fluid
pH - value 1 : 10	6.0 – 7.0
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Upto 10 months from the date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL MLI - N is mainly used for soft, gloving, garment and upholstery leather in the main fatliquoring bath.

### **Properties and Application:**

- » Good softness
- » Gives waxy touch.
- » Excellent fullness with body.
- » Good Penetration

### **Usage Quantities:**

Garment leather sheep : 4 – 6% ZSIVIROL MLI-N  
 Cattle Clothing leather : Upto 8% ZSIVIROL MLI-N  
 Goat skins : Upto 6% ZSIVIROL MLI-N

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## ZSIVIROL SSO

**Synthetic Sperm Substitute Fatliquor**

Chemical composition	Sulfited Synthetic Sperm Oil Fatliquor
Fattening substance	60 % ± 2%
Appearance	Reddish brown oil
pH - value 1 : 10	7.0 – 8.0
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable to chrome upto some extent
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL SSO is mainly used for high quality leather as Chrome Free Leathers, Upper, gloving, Upholstery and Garment as Main Fatliquor.

### **Properties and Application:**

- » Good light fastness.
- » Uniform filling with Softness with roundness.
- » Provides tight grain with elasticity .
- » Provides good body with filling on loose portions.

### **Usage Quantities:**

Garment leather sheep : 4 – 8%  
 Cow Nappa : 6 – 10%  
 Shoe Softy : 2 – 4%  
 Split Suede : 3 – 5%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## ZSIVIROL GSIN

**Cationic Fatliquor**

Chemical composition	Blend of Cationic Waxes and Oils
Solids	Approx 25%
Appearance	Whitish Paste
pH - value 1:10	4.0 to 4.5
Charge	Cationic
Shelf life	Up to 10 months from date of manufacture
Dilution	1: 3 with water of 30 – 40° C

**Field of application:**

ZSIVIROL GSIN being slightly cationic fatliquor used in wet blue processing as well as dyeing.

**Properties and Application:**

- » ZSIVIROL GSIN imparts fullness and improves softness on the surface of the leather.
- » ZSIVIROL GSIN can also be used in wet back.
- » ZSIVIROL GSIN imparts good shene over suede leathers.

**Usage Quantities:**

Upto 3% in all type of leathers

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL CA

**Spew Retardant and Strength Improver**

Chemical composition	Blend of specially treated synthetic oils, Direct substitute for neatsfoot oil.
Fattening substance	ca. 98 %
Appearance	Clear Yellow to Dark Yellow Oil
pH - value 1:10	5.0 to 7.0
Stability to electrolytes	Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution.

**Field of application:**

As spew retardant and to improve tensile strength of the leather. Mainly used in Garment & Gloving Leathers

**Properties and Application:**

- » ZSIVIROL CA is a unique formulation withstanding sub-zero temperatures and prevents the moisture entering into the leather thereby controlling the humidity entering into the leather. When leather is not attacked by moisture the chances of spew formation is controlled and curtailed.
- » Very Good light fastness and can be used for white leathers.
- » Produces Excellent waxy touch with smooth grain.
- » Gives smooth surface feel.
- » Well suitable for garment and light weight leathers.

**Usage Quantities:**

Recommended to be used upto 3% maximum of shaved.

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# ZSIVIRA

## ZSIVIROL NFE

**Neats foot oil Substitute Fatliquor**

Chemical composition	Sulfonated Neats foot Oil substitute Fatliquor
Fattening substance	60 % ± 2%
Appearance	Pale Beige Paste
pH - value 1 : 10	7.0 – 8.0
Charge	Anionic
Stability to electrolytes	Medium Stable to chrome, acids and salts under usual tannery conditions.
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL NFE is mainly used for all types of high quality leathers of any origin and any article.

### **Properties and Application:**

- » Excellent light fastness.
- » Excellent grain lubrication and hence improves tensile strength.
- » In Vegetable tanning it Provides tight grain with elasticity and avoids grain crack .
- » Provides dye brilliancy.

### **Usage Quantities:**

2 - 3% depending upon article.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL NFE-100

**Raw Natural Oil Blend**

Chemical composition	Raw Oil with Emulsifiers
Solids	100 %
Appearance	Pale Turbid oil
Shelf life	Up to 10 months from date of manufacture
Dilution	Soluble in Water as emulsion.

### **Field of application**

During fatliquoring and also before fixing.

### **Properties**

- » Improves tear strength. Of the leather.
- » Excellent Burnishing effect.
- » Improves grain smoothness and grain resilience.
- » Good Dye Brilliancy.
- » Avoids Grain Crack.

### **Application:**

ZSIVIROL NFE-100 can be used individually or by mixing with other fat liquors.

### **Quantities:**

Nappa Upper leather	: 1.0 - 2.0%
Glace Kid	: 1.0 - 2.0%
Garment leather	: 1% - 2%
Uphostery leather	: 1.0 - 2.0 %

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# ZSIVIRA

## ZSIVIROL NPC20

**Compact Fatliquor**

Chemical composition	Blend of Sulfited Synthetic and Natural Oils with special softeners
Fattening substance	55 to 60 %
pH - value 1 : 10	5.5 – 7.0
Appearance	Dark Brown Turbid Fluid
Charge	Anionic
Stability to electrolytes	Highly stable to acids and salts under usual tannery conditions.
Shelf life	Upto 10 months from the date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application :**

Special fatliquor for nourishment of all kinds of leathers

### **Properties :**

- » ZSIVIROL NPC 20 provides excellent lubrication and nourishment without loosening the leathers.
- » Minimises and avoids grain crack in Vegetable tanned Leathers.
- » Provides inner softness with body.
- » Best for drum dyed articles as it provides even dyeing.
- » Used along with ZSIVIROL TRG1 will provide long lasting softness even upon prolonged storage.
- » Compatible with all other fatliquors.

### **Usage :**

In Chrome Tanned Leathers : Upto 10%  
 In Vegetable Tanning : Upto 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVIROL SFR

**Phosphated Ester Fatliquor**

Chemical composition	Phosphorilated Fatty Alcohol Esters
Fattening substance	52± 2%
Appearance	Opaque Fluid
pH - value 1 : 10	5.5 – 6.5
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 6 months from the date of manufacturing
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

Fatliquor for Lightfast, Light weight, Soft and odourless leathers.

### **Properties and Application:**

- » ZSIVIROL SFR gives Predominant softness with inner sponginess to the leather.
- » Excellent heat resistance and Light fastness.
- » Provides even dyeing.
- » Best for, Softies, Upholstery, Garment and Gloving where additional softness is required.
- » Best for WET WHITE TANNING and pastal leathers.
- » Provides even dyeing in both dark and pastal shades.
- » Can be used as a single fatliquor for upholstery and gloving.

### **Usage Quantities:**

Upholstery : Upto 15 %  
 Glove leather : Upto 10%  
 Garments : 4 – 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA



# ZSIVIRA

## ZSIVIROL SWZ

**Compact Nourishment with Tanning**

Chemical composition	Blend of Esters with monomers and special waxes
Appearance	Creamy Opaque Paste
pH - value 1 : 10	7.5 – 8.5
Active Content	40 ± 2%
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Not Stable in chrome liquors
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 40 – 50° C.

### **Field of application :**

ZSIVIROL SWZ is a special product which functions as nourishing cum retanning agent.

### **Properties :**

- » ZSIVIROL SWZ provides leather with light weight, fluffy and high lightfastness.
- » Best suitable for high end garments and gloving.
- » Highly suitable for light and pastel shades with brilliancy.
- » The nourishment produced withstands heavy mechanical operations and cannot be washed out. Hence it is highly suitable for DD articles and Washable articles.
- » Provides excellent tear strength property.
- » Very much suitable for white articles and also low fogging value articles.

### **Usage :**

Depending upon the article the product is used from 12 to 15%. It is advised to dilute 1:3 ratio with water at 40°C to 50°C

Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and Application of the product will remain same.

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## ZSIVIROL TMZ

**Cross Link Fatliquor and Formaldehyde reducer**

Chemical composition	Synthetic Oils cross linked with amides
Appearance	Pale Brown oil Liquid
pH - value 1 : 10	6.5 – 7.5
Charge	Amphoteric
Shelf life	Up to 10 months from date of manufacture
Dilution	Added Undiluted

### **Field of application:**

Multifunctional fatliquor use from Bating to Tanning.

When used in retanning along with syntans, it will react with the FREE FORMALDEHYDE in the syntans and reduce the Formaldehyde content in the final leather.

### **Properties and Application:**

- » ZSIVIROL TMZ is capable of opening even very hard grain structures/fibres without affecting the smoothness of grain surface.
- » It can be used in different stages at variable pH to obtain various results such as penetrating agent for fatliquors, Provides complete bath exhaustion.
- » Provides smooth, flat surface even in leather which have very harsh and hard grain surface.
- » Provides good stretch and elasticity property which is more needed for garment and gloving leathers.
- » Improves the functionality of fatliquors namely softness as it releases the required amide and catalyses the fats in fatliquors thereby enhancing the fats to enter and spread evenly inside the leather.

### **Usage Quantities:**

In Bating of Wet Blue	: 3% – 5%
In Crusting	: 4% – 6%
In Fatliquoring	: 2% – 4%
In Retanning	: 2% – 3%
In Dyeing	: 1% – 2%

**Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.**  
**Store within 5°C to 35°C in original pack with tightly closed.**

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# ZSIVIRA

## ZSIVIROL UFB

**Natural and Synthetic Blend Fatliquor**

Chemical composition	Blend of Natural and Synthetic substrates
Fattening substance	55% ± 3%
Appearance	Pale Brown to Red oil
pH - value 1 : 10	5.5 – 7.0
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from the date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

ZSIVIROL UFB is mainly used for all types of nappa and gloving where pronounced inner softness and smooth touch is required .

### **Properties and Application:**

- » ZSIVIROL UFB gives excellent inner softness to the leather.
- » Good light fastness.
- » Provides Fullness and smooth touch.
- » Best for light weight leathers.

### **Usage Quantities:**

Garment leather : Upto 7 %  
 Glove leather : 4% - 6%  
 Upholstery/ Upper : Upto 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## ZSIVIROL ZR

**Phosphoric Ester Fatliquor**

Chemical composition	Phosphorilated Fatty Alcohol Ester with waxy oils compound
Fattening substance	55 ± 2%
Appearance	Translucent / Opaque Paste
pH - value 1 : 10	6.5 – 7.5
Charge	Nonionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from the date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 – 60° C.

### **Field of application:**

Fatliquor for very soft, High lightfast, light weight and odourless leathers.

### **Properties and Application:**

- » ZSIVIROL ZR gives excellent softness with spongy handle to the leather.
- » Very Good light fastness with good heat resistance.
- » Provides Fullness and smooth touch and even dyeing.
- » Best for, Softies, Shoe uppers, Upholstery, Garment and Gloving where extraordinary softness is required.
- » Best for WET WHITE TANNING.
- » Provides even dyeing in both dark and pastel shades.
- » Can be used as a single fatliquor for upholstery and gloving.

### **Usage Quantities:**

Upholstery : Upto 15 %  
 Glove leather : Upto 10%  
 Mens Garments : 4 - 6%  
 Ladies Garments : 5 - 8%  
 Shoe Uppers : 5 - 10%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## ZSIVIROL LON

*Lanolin Based Fatliquor*

Chemical composition	Formulation of synthetic oils with Lanolin
Active Solids	55 %
Appearance	Reddish Brown Oil to fluid
pH - value 1 : 10	6 - 7
Charge	Anionic
Stability to electrolytes	Highly stable to acids and salts under usual tannery conditions.
Shelf life	Up to 10 months from the date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 - 60° C.

### **Field of application:**

ZSIVIROL LON is used in all types of leathers to give inner softness with dye brilliancy.

### **Properties and Application:**

- » Good softness.
- » Improves grain resilience.
- » Smooth grain.
- » Fullness without looseness.
- » Does not load the leather.
- » Avoids Grain Crack.
- » Burnish effect.
- » Enhances Dye Brilliancy.

### **Usage Quantities:**

Suggested to be used upto 6% in any type of leathers depending upon the final optique required.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

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# ZSIVIRA

## ZSIVIROL BAZ

*Lecithin Based fatliquor*

Chemical composition	Modified lecithin with esters
Active Solids	45% +/-2%
Appearance	Pale Beige paste
pH - value 1 : 10	5.0 - 6.0
Charge	Nonionic
Stability to electrolytes	Highly stable to acids and salts under usual tannery conditions. Stable in chrome liquors.
Shelf life	Up to 10 months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 - 60° C.

### **Properties and Application:**

- » Excellent softness without looseness.
- » Does not bleach the colour. Allows brilliant shade dyeing.
- » Very good light fastness.
- » Provides permanent softness with bounciness even in prolonged storage.
- » Will not load the leather and hence Produces light weight leathers.
- » Improves penetration of other fatliquors and produces leather without greasiness.

### **Usage Quantities:**

Nappa Upper leather : upto 7% ZSIVIROL BAZ  
 Glove leather : upto 5% ZSIVIROL BAZ  
 Garment leather : 3% - 7% ZSIVIROL BAZ  
 Uphostery leather : upto 8 % ZSIVIROL BAZ

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL LNM

*Lecithin Based Fatliquor*

Chemical composition	Formulation of lecithin with special softeners
Active Solids	45 to 50%
Appearance	Pale to Dark Beige paste
pH - value 1:10	6 - 7
Charge	Nonionic
Stability to electrolytes	Highly stable to acids and salts under usual tannery conditions. Stable in chrome liquors.
Shelf life	Up 10 Months from date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 - 60° C.

### **Field of application:**

For the production of all kinds of leather with a flexible and fine grain and without looseness. ZSIVIROL LNM can be used alone or in combination with other fat liquors.

### **Properties and Application:**

- » Excellent grain lubrication resulting in outstanding softness without looseness.
- » Very good fixation with the leather fibre and therefore a long lasting softness is achieved.
- » ZSIVIROL LNM gives a pleasant handle keeping the grain layer flexible and protecting it from cracking.
- » Good Light Fastness.
- » Avoids Looseness.

### **Usage Quantities:**

Nappa Upper leather : upto 5% ZSIVIROL LNM  
 Glove leather : upto 5% ZSIVIROL LNM  
 Garment leather : 3% - 5% ZSIVIROL LNM  
 upholstery leather : upto 6 % ZSIVIROL LNM

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL ILE

*Phospholipid Fatliquor for high softness*

Composition of Chemicals	Sulfited Phospholipids with speciality softeners
Appearance	Dark Brown Viscous Liquid
Solids	5% ± 2%
pH	6.0 - 7.0
Charge	Anionic
Electrolyte Stability	Highly Stable to acids, salts and alkalies. Stable in Chrome Liquor

### **Properties and Application:**

- » ZSIVIROL ILE is a speciality fatliquor for all kind of leathers which needs very high softness.
- » It provides leather with extraordinary softness and fullness.
- » It provides excellent permanent inner softness with roundness.
- » Provides smooth grain with stretch.
- » Best for gloving, garment, upholstery and shoe nappa and washable articles.
- » Retains softness of the leather even after continual washing and hot tumbling .

### **Application :**

Soft Nappa : Upto 5%  
 Sheep Garment : Upto 4%  
 Suede/Split Suede : Upto 4%  
 Shoes : Upto 3%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL RC33

*Synthetic Fat Liquor*

Chemical composition	Blend of Synthetic Oil and softeners
Fattening substance	55 ± 2%
Appearance	Pale Brown to Red oil /semi fluid
pH - value 1 : 10	5.5 – 7.0
Charge	Anionic
Stability to electrolytes	Stable to acids and salts under usual tannery conditions. Stable in chrome liquors
Shelf life	Up to 10 months from the date of manufacture
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 - 60° C.

### **Field of application:**

ZSIVIROL RC 33 is mainly used for all types of nappa and gloving where pronounced inner softness and smooth touch is required .

### **Properties and Application:**

- » ZSIVIROL RC 33 gives excellent inner softness to the leather.
- » Good light fastness.
- » Provides Fullness and smooth touch.
- » Best for light weight leathers.

### **Usage Quantities:**

Garment leather : Upto 7 %  
 Glove leather : 4% - 6%  
 Upholstery/ Upper : Upto 8%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVIROL ZN

*Synthetic Ester Blended Fatliquor*

Chemical composition	Synthetic Esters with Natural softeners
Fattening substance	60 % ± 2%
Appearance	Reddish Brown Oil
pH - value 1 : 10	7.5 – 8.5
Charge	Anionic
Stability to electrolytes	Highly Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Combinations with other fatliquors have to be stirred thoroughly before dilution. Dilution method: 1 : 3 with water of 50 - 60° C.

### **Field of application:**

ZSIVIROL ZN is mainly used for high quality leathers like Chrome Free Leathers, Upper, gloving, Upholstery and Garment as Main Fatliquor.

### **Properties and Application:**

- » Provides extraordinary softness with internal lubrication.
- » Produces soft, elastic leathers without any looseness.
- » Provides High Heat and Light Fastness.
- » Long Lasting softness even in prolonged storage.
- » Provides good grain lubrication.
- » While used before Neutralisations, it provides enhanced softness.

### **Usage Quantities:**

Used from 3% to 6% depending upon article.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ALDOX 450

(Polyaldehyde)

Composition of Chemicals	Polyaldehyde
Appearance	Clear Liquid. Possibility of colour change on storage for long time.
Solids	42% to 45%
pH	4.5 to 5.5
Charge	Amphoteric
Shelf Life	10 months from the date of manufacture

### Technology :

ALDOX 450 is a new generation product whereby the aldehyde is Cross linked and Polymerised to give more suppleness without affecting the grain smoothness

### Character :

- » ALDOX 450 is used from pre-tanning to re-tanning of all types of leathers.
- » Catalyses the chrome and improves its exhaustion and uptake thereby providing leather with fullness and softness and reduces the chance of loose grain.
- » In Vegetable tanning, it increases the penetration of the veg extracts and improves its spreading throughout the leather.
- » Improves the strength of the leather and takes care of dye penetration and even dye distribution with dye brilliancy.
- » Best for wet white and washed articles.
- » Improves the tear strength as it neutralizes the inert acid inside the fibres and fibrils.
- » DONOT CONTAIN ANY FORMALDEHYDE or FREE FORMALDEHYDE.

### Application :

In pre-tanning	: 2% - 4%
In Chrome Tanning	: 3% - 4%
In Neutralising	: Upto 3%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ALDOX 605

(Modified Polyaldehyde with Biopolymers)

Composition of Chemicals	Modified Polyaldehyde with Biopolymers
Appearance	Clear Liquid. Possibility of colour change on storage for long time.
Solids	45% ± 2%
pH	6 to 7
Charge	Amphoteric
Shelf Life	10 months from the date of manufacture

### Technology :

ALDOX 605 is a new generation product whereby the aldehyde is Cross linked and Polymerised with Biopolymers to give more suppleness without affecting the grain smoothness.

### Usage :

Can be used in tanning and retanning of chrome and vegetable tanned leathers

### Character :

- » ALDOX 605 is used from pre-tanning to re-tanning of all types of leathers.
- » Catalyses the chrome and improves its exhaustion and uptake thereby providing leather with fullness and softness and reduces the chance of loose grain.
- » In Vegetable tanning, it increases the penetration of the veg extracts and improves its spreading throughout the leather.
- » Improves the filling and improves the strength of the leather and takes care of dye penetration and even dye distribution with dye brilliancy.
- » Best for Chrome free, vegetable , Wet white and washed articles.
- » Improves the tear strength as it neutralizes the inert acid inside the fibres and fibrils.
- » DONOT CONTAIN ANY FREE FORMALDEHYDE or BISPENOLS.

### Application :

In pre-tanning	: 2% - 4%
In Chrome Tanning	: 3% - 4%
In Neutralising	: Upto 3%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ALDOX PAL

(Polyaldehyde)

Composition of Chemicals	Polyaldehyde
Appearance	Clear Liquid. Possibility of little colour change on storage for long time.
Solids	42% to 45%
pH	4.5 to 5.5
Charge	Amphoteric
Shelf Life	10 months from the date of manufacture

### Technology :

ALDOX PAL is a new generation product whereby the aldehyde is Cross linked and Polymerised to give more suppleness without affecting the grain smoothness.

### Character :

- » ALDOX PAL is used from pre-tanning to re-tanning of all types of leathers.
- » Catalyses the chrome and improves its exhaustion and uptake thereby providing leather with fullness and softness and reduces the chance of loose grain.
- » In Vegetable tanning, it increases the penetration of the veg extracts and improves its spreading throughout the leather.
- » Improves the strength of the leather and takes care of dye penetration and even dye distribution with dye brilliancy.
- » Best for wet white and washed articles.
- » Improves the tear strength as it neutralizes the inert acid inside the fibres and fibrils.
- » DONOT CONTAIN ANY FORMALDEHYDE or FREE FORMALDEHYDE.

### Application :

In pre-tanning	: 2% - 4%
In Chrome Tanning	: 3% - 4%
In Neutralising	: Upto 3%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ALDOX PFZ

Modified Polyaldehyde

Composition of Chemicals	Polyaldehyde
Appearance	Clear Liquid. Possibility of little colour change on storage for long time.
Solids	25%
pH	3.5 to 5.0
Charge	Amphoteric
Shelf Life	Upto 8 months from the date of manufacture

### Technology :

ALDOX PFZ is a new generation product whereby the aldehyde is Cross linked and Polymerised to give more suppleness without affecting the grain smoothness.

### Character :

- » ZSIVITAN PFZ is used from pre-tanning to re-tanning of all types of leathers.
- » Catalyses the chrome and improves its exhaustion and uptake thereby providing leather with fullness and softness and reduces the chance of loose grain.
- » In Vegetable tanning, it increases the penetration of the veg extracts and improves its spreading throughout the leather.
- » Improves the strength of the leather and takes care of dye penetration and even dye distribution with dye brilliancy.
- » Best for wet white and washed articles.
- » Improves the tear strength as it neutralizes the inert acid inside the fibres and fibrils.
- » FREE FROM FORMALDEHYDE.

### Application :

In pre-tanning	: 2% - 4%
In Chrome Tanning	: 3% - 4%
In Neutralising	: Upto 3%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN ZT50

**Modified Gluteraldehyde**

Chemical composition	Modified Gluteraldehyde Tanning Agent
Solids	Approx 50%
Inonic	Anionic
Appearance	Clear Transparent liquid
pH - value	Approx 3.5 to 3.8 ( Undiluted )
Shelf life	Up to 8 months from the date of manufacture
Stability to electrolytes	Stable to acids and salts under usual tannery conditions
Dilution	1:5 with water of 30 – 40° C.

### Field of application :

In the tanning of wet white and chrome free leathers.  
In the pretanning and retanning of Veg and Chrome Leathers.

### Properties :

- » ZSIVITAN ZT50 produces Wet white leather with shrinkage >85° C.
- » Can also be used along with Chrome in low chrome articles.
- » Compatible with Veg tanning agents. Compatibility with Phenolics, Quaternary Ammonium Salts and Sulfated Oils need to be checked before usage.
- » To be added to drum at pH 3.5 to 3.8 to get good tanning action. At elevated pH ZSIVITAN ZT50 will have complete exhaustion from the bath thereby making the tanning action complete.
- » Upon prolonged / Improper storage the appearance of the product may tend to slight yellow. But this will not affect the tanning property of the product.

### Usage Quantities:

- » For General Articles depending upon the need 0.5% to 4% is recommended.
- » In case of Shrunken articles, it is advised to consult of technical team.
- » For Wetwhite and Metal Free Tanning 3% - 5%

ZSIVITAN ZT50 is COMPLETELY FREE FROM FORMALDEHYDE. The products tends to change colour to slight Amber on ageing, but the usage and character of the product remains unchanged.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN Z90

**Modified Gluteraldehyde with penetrant**

Chemical composition	Modified Gluteraldehyde Tanning Agent with penetrants
Solids	Approx 50%
Inonic	Anionic
Appearance	Clear Transparent liquid
pH - value	Approx 3.5 to 3.8 ( Undiluted )
Shelf life	Up to 8 months from date of manufacture
Stability to electrolytes	Stable to acids and salts under usual tannery conditions
Dilution	1:5 with water of 30 – 40° C.

### Field of application :

In the tanning of wet white and chrome free leathers.  
In the pretanning and retanning of Veg and Chrome Leathers.

### Properties :

- » ZSIVITAN Z90 produces Wet white leather with shrinkage >85° C.
- » Can also be used along with Chrome in low chrome articles.
- » Compatible with Veg tanning agents. Compatibility with Phenolics, Quaternary Ammonium Salts and Sulfated Oils need to be checked before usage.
- » To be added to drum at pH 3.5 to 3.8 to get good tanning action. At elevated pH ZSIVITAN ZT50 will have complete exhaustion from the bath thereby making the tanning action complete.
- » Upon prolonged / Improper storage the appearance of the product may tend to slight yellow. But this will not affect the tanning property of the product.

### Usage Quantities:

- » For General Articles depending upon the need 0.5% to 4% is recommended.
- » In case of Shrunken articles, it is advised to consult of technical team.
- » For Wetwhite and Metal Free Tanning 3% - 5%

ZSIVITAN Z90 is COMPLETELY FREE FROM FORMALDEHYDE. The products tends to change colour to slight Amber on ageing, but the usage and character of the product remains unchanged.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN HPU

**Hydrolysed Polymer**

Chemical composition	Condensation of Hydrolysed Polymers
Activity	97 %
Appearance	Pale Beige Powder
pH - value 1 : 10	7.5 to 8.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

For all kinds of leather where special over all filling and more particularly filling on belly and shanks is required. Can be used in Retanning and also in Fatliquoring.

### **Properties :**

- » ZSIVITAN HPU penetrates into the leather through grain side and fills up the loose portions thoroughly and even fills those portions, where Acrylic polymers cannot penetrate deeply.
- » Avoids looseness and gives compact grain without hardening the grain.
- » Excellent Light Fastness.
- » Does not yellow on heating / plating.
- » Provides Excellent Buffing property.
- » Best for Chrome - Free Leathers.

### **Usage Quantities:**

Normally Up to 6% is given depending upon leather and tannage.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN RP Liq

**Polycondensated Phenolic Resin**

Chemical composition	Phenolic Resin Polycondensate
Solids	40 to 45%
Appearance	Reddish Brown Liquid
pH - value 1 : 10	3.5 – 4.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In all type of leathers where fullness good filling without looseness in the mainly needed.

### **Properties :**

- » Excellent filling in loose portion. Hence no grain disturbance.
- » Provides excellent fullness and mellowness.
- » Good Print retention with light weight.
- » Provides even grain.

### **Usage Quantity :**

In Sheep Nappa	: Upto 6%
In Cow Softies	: Upto 6%
In Goat Gloving	: Upto 4%
In El Tanning	: Upto 4%
In Shoe Upper	: Upto 4%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN RP

**Polycondensated Phenolic Resin**

Chemical composition	Phenolic Resin Polycondensate
Solids	97 to 98%
Appearance	Pale Brown Powder
pH - value 1 : 10	3.5 – 4.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In all type of leathers where fullness good filling without looseness in the mainly needed.

### **Properties :**

- » Excellent filling in loose portion. Hence no grain disturbance.
- » Provides excellent fullness and mellowness.
- » Good Print retention with light weight.
- » Provides even grain.

### **Usage Quantity :**

In Sheep Nappa	: Upto 6%
In Cow Softies	: Upto 6%
In Goat Gloving	: Upto 4%
In El Tanning	: Upto 4%
In Shoe Upper	: Upto 5%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN RW Liq

**Polycondensated Phenolic Sulfone**

Chemical composition	Phenolic Sulfone Polycondensate
Solids	40% to 45%
Appearance	Reddish Liquid
pH - value 1 : 10	3.0 – 4.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In all type of leathers where fullness with clean dyeing is needed.

### **Properties :**

- » Gives leather fullness and a fine grain with good filling.
- » Can be used in retanning and chrome tanned and veg tanned leathers .
- » Makes light colour dyeing possible with even dyeing and brilliant shades both in chrome tanned and veg tanned leathers.
- » Produces Leather with light weight .
- » Avoids looseness.

### **Usage Quantities:**

In Upper leather	: Upto 6 %
For Drum dyed articles	: Upto 8%
El Pretanning	: Upto 4%
Garment Leathers	: Upto 6%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN WP Liq

**Polycondensated Sulfone**

Chemical composition	Liquid Sulfone Polycondensate
Solids	42 ± 2%
Appearance	Pale yellow to Pale Red Liquid
pH - value 1 : 10	3.0 – 4.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In all type of leathers where fullness with clean dyeing is needed.

### **Properties :**

- » Gives leather fullness and a fine grain with good filling.
- » Can be used in Wet White tanning .
- » Makes light colour dyeing possible with even dyeing and brilliant shades both in chrome tanned and veg tanned leathers.
- » Produces Leather with light weight .

### **Usage Quantities:**

In white upper leather : Upto 86%  
 For Drum dyed articles : Upto 108%  
 El Pretanning : Upto 6%  
 Wet White Nappa : Upto 6%  
 Garment Leathers : Upto 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

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# ZSIVIRA

## ZSIVITAN WP

**Sulfone Polycondensate**

Chemical composition	Sulfone Polycondensate
Solids	98%
Appearance	White Powder
pH - value 1 : 10	3.0 – 4.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In all type of leathers where fullness with clean dyeing is needed.

### **Properties :**

- » Gives leather fullness and a fine grain with good filling.
- » Can be used in Wet White tanning .
- » Makes light colour dyeing possible with even dyeing and brilliant shades both in chrome tanned and veg tanned leathers.
- » Produces Leather with light weight .

### **Usage Quantities:**

In white upper leather : Upto 6%  
 For Drum dyed articles : Upto 8%  
 El Pretanning : Upto 4%  
 Wet White Nappa : Upto 4%  
 Garment Leathers : Upto 6%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## BIOPOL PHU

*Bio Polymer*

Chemical composition	Condensation of Bio Polymers
Activity	97 %
Appearance	Pale Beige Powder
pH - value 1 : 10	7.5 to 8.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

For all kinds of leather where special over all filling and more particularly filling on surface is required.  
Can be used in Retanning and also in Fatliquoring.

### **Properties :**

- » BIOPOL PHU is free from Formaldehyde and Bisphenols
- » Penetrates into the leather through grain side and fills up the loose portions thoroughly and deeply.
- » Reduces looseness and gives compact grain without hardening the grain surface.
- » Excellent Light Fastness.
- » Provides Excellent Buffing property.
- » Best for Chrome - Free Leathers and wet white articles.

### **Usage Quantities:**

Normally Up to 6% is given depending upon leather and tannage.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## BIOPOL M2S

*BIOPOLYMER*

Chemical composition	Modified Biopolymer
Active matter	99 ± 2 %
Appearance	Off White Powder
pH - value 1 : 10	5.5 – 6.5
Charge	Anionic
Light Fastness	Good
Stability to electrolytes	Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 10 months from the date of manufacture

### **Properties:**

- » BIOPOL M2S provides leather with good filling on the surface and fibers.
- » Free from Formaldehyde and Bisphenols.
- » Suitable for all type of articles.
- » Thoroughly fills up the loose portion entirely without affecting the softness.
- » Produces uniform clear grain with good light fastness.
- » Best for Garment, shoe upper, Lining, Cow Nappa and Upholstery leathers.
- » Due to Biopolymer, the product reduces the Pollution load.

### **Usage (on wetblue weight):**

It is recommended to use upto 6% depending on articles.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## BIOPOL YSR70

*Bio Polymer Compact*

Chemical composition	Bio Polymers compact blend
Activity	50 ± 2 %
Appearance	Dark Beige Fluid
pH - value 1 : 10	6.0 to 8.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Special Bio Polymer Compact which can be used as a single product in Wet Blue to Dyed Crust direct dyeing.

### **Properties :**

- » BIOPOL YSR70 is free from Formaldehyde and Bisphenols.
- » Penetrates into the leather and lubricates and fills the fiber and fibrils as micro molecules.
- » Performs the character of syntan as well as fatliquor in the same bath.
- » Suitable for Chrome, Metal Free and Drum dyed articles.

### **Usage Quantities:**

Normally Up to 15% is given depending upon leather and tannage.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## BIOPOL YSR 160D

*Bio Polymer Compact*

Chemical composition	Bio Polymers compact blend
Activity	50 ± 2 %
Appearance	Dark Beige Viscous Fluid
pH - value 1 : 10	5.0 to 6.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Special Bio Polymer Compact which can be used as a single product in Wet Blue to Dyed Crust direct dyeing.

### **Properties :**

- » BIOPOL YSR 160D is free from Formaldehyde and Bisphenols.
- » Penetrates into the leather and lubricates and fills the fiber and fibrils as micro molecules.
- » Gives Brilliancy is dyeing with dye depth.
- » Performs the character of syntan as well as fatliquor in the same bath.
- » Suitable for Wet white, Chrome, Metal Free and Drum dyed articles.
- » Eliminates the use of so many products in tanning and thereby minimises inventory pileup.
- » Reduces the pollution load due to Biopolymer character.

### **Usage Quantities:**

Normally Up to 20% can be given depending upon leather and tannage.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## BIOPOL L5

*Bio Polymer Liquid*

Chemical composition	Condensation of Bio Polymers
Activity	45 ± 2 %
Appearance	Viscous Fluid
pH - value 1 : 10	6.0 to 8.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

For all kinds of leather where special over all filling is required.  
Can be used in Retanning and also in Fatliquoring.

### **Properties :**

- » BIOPOL L5 is free from Formaldehyde and Bisphenols.
- » Penetrates into the leather fiber and fibrils as macro molecules and fills up the loose portions thoroughly and deeply.
- » Reduces looseness and gives compact leather without hardening.
- » Excellent Light Fastness.
- » Best for Chrome - Free Leathers and wet white articles.

### **Usage Quantities:**

Normally Up to 5% is given depending upon leather and tannage.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## BIOPOL L6

*Liquid Bio Polymer*

Chemical composition	Condensation of Bio Polymers
Activity	45 ± 2 %
Appearance	Opaque Semi Viscous Fluid
pH - value 1 : 10	5.5 to 6.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

For all kinds of leather where special over all filling is required.  
Can be used in Tanning, Retanning and also in Fatliquoring.

### **Properties :**

- » BIOPOL L6 is free from Formaldehyde and Bisphenols
- » Penetrates into the leather fiber and fibrils as macro molecules and fills up the loose portions thoroughly and deeply.
- » Reduces looseness and gives compact leather without hardening.
- » Excellent Light Fastness.
- » Gives roundness with rubbery handle.
- » Best for Chrome - Free Leathers and wet white articles.

### **Usage Quantities:**

Normally upto 7% is used depending upon leather and tannage.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## PROTAN P

**Hydrolysed Bio Polymer**

Chemical composition	Condensation of Hydrolysed Biopolymers
Activity	97 %
Appearance	Pale White to Creamish
pH - value 1 : 10	5.5 to 6.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

For Glaze Kid / Polished Kid Uppers and garments.

### **Properties :**

- » Being Hydrolysed protein PROTAN P penetrates into the leather through grain side.
- » Avoids looseness and gives compact grain without hardening the grain.
- » Best for Glaze Kid & Polished Kid as it enhances the shine of the article.
- » Fills the flanks and Belly and in between the fibres and fibrils.

### **Usage Quantities:**

Normally Up to 3% is given depending upon leather and tannage.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN PH

**BIO POLYMER**

Chemical composition	Hydrolysed Bio Polymer
Activity	ca. 98%
Appearance	Pale White Granules
pH - value 1 : 10	5.0 – 6.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application**

In the retanning to correct the problem of uneven looseness and firmness of leather

### **Properties**

- » ZSIVITAN PH is an eco friendly syntan fortified with complimentary filling agents.
- » ZSIVITAN PH is made with selected rich proteins and hence does not fade the colour in case of dark colour tanning.
- » The speciality of ZSIVITAN PH is that it penetrates through the grain section and thereby provides even grain with tightness.

### **Usage Quantities:**

In the Suede	: 3% - 5 % ZSIVITAN PH
Split Leather	: UP - 6% ZSIVITAN PH
Sheep garment leather	: 2% - 4% ZSIVITAN PH
In Thick Shoe Upper	: 2% - 6% of ZSIVITAN PH
In Thin Shoe Upper	: 3% - 8% of ZSIVITAN PH

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

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# ZSIVIRA

## ZSIVITAN PCKi

*Tanning/Retanning Additive*

Chemical composition	Blend of polypeptides & aromatic sulphonates
Active matter	40 %
Appearance	Dark brown liquid
pH - value 1 : 10	6.0 – 7.5
Charge	Anionic
Light Fastness	Good
Stability to electrolytes	Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 10 months from the date of manufacture
Dilution method	Product is added as 1:10 diluted with water before adding to drum

### Field of application

ZSIVITAN PCKi is an excellent eco friendly additive for chrome and vegetable tanned leathers, It is well suitable for shoe uppers as it gives predominant tightness and fullness. When applied at pH7 a remarkable milling pattern is obtained.

### Properties

- » ZSIVITAN PCKi is free of solvents and biodegradable.
- » Provides excellent filling of the loose structure without reducing the resistance of the fibre. Produces soft and full leathers with a smooth handle.
- » In the neutralization, gives through & through pH, to give uniform softness.
- » In the rechroming, distributes and fixes the chrome
- » In the retanning along with the acrylic syntans gives rubbery feel.
- » In the Low chrome and wet white improves and accelerates the retanning system.

### Quantities:

Percentages are based on shaved weight.

Chrome tanning	1.5 - 2.5%	Neutralisation	1.0 – 2.0% with neutral salt
Rechroming	1.0 - 2.0%	Retanning	2.0 – 3.0
Fatliquoring	1.0 – 2.0% (prior to fat addition)	Split suedes	2.0 – 6.0%

Due to low Freeze point character ZSIVITAN PCKi tends to become JELLY at temperatures below 14°C. But when added to drum it will dissolve and gives the same result

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN PCW

*BIO COLLAGEN*

Chemical composition	Blend of Bio Polymers and Collagens
Active matter	48 to 50 %
Appearance	Beige viscous Fluid
pH - value 1 : 10	6.5 – 7.0
Charge	Anionic
Light Fastness	Good
Stability to electrolytes	Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution method	Product is added as 1:10 diluted with water before adding to drum

### Field of application

ZSIVITAN PCW is an excellent eco friendly tanning agent for chrome, vegetable tanned leathers and also wet white leathers.

### Properties

- » ZSIVITAN PCW thoroughly fills up the loose portion entirely without affecting the softness.
- » Produces uniform clear grain with bouncy character and good light fastness.
- » Best for Nubuck, Box calf, Pullup, garment, shoe upper and Upholstery leathers.
- » Can be used in Tanning, Retanning, Chrome Tanning, Veg Tanning and Wet White tanning.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN ACR

*Acrylic Polymer*

Chemical composition	High molecular weight synthetic organic resin tanning agent based on water soluble acrylic polymer
Solids	30 to 35%
Appearance	Clear viscous liquid. May turn little yellow upon improper storage in long term
pH - value 1:10	6.0 – 7.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Anionic retanning agent for all kinds of leather chrome tanned, semi-chrome and full vegetable leather.

### **Properties :**

- » ZSIVITAN ACR is suitable for filling and tightening all types of chrome leathers without grain harshness.
- » Allow even dyeing with brilliant shades.

### **Usage Quantities:**

In the Softy & upper leather : 2 - 4 % ZSIVITAN ACR  
 Garment leather : 2 - 5% ZSIVITAN ACR

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN RNFI

*Multifunctional Speciality Polymer*

Chemical composition	Blend of special multifunctional polyacrylates
Solids	Approx 35 to 40%
Appearance	Clear to Pale liquid
pH - value 1:10	6.0 to 7.5
Charge	Amphoteric
Shelf life	Up to 10 months from the date of manufacture
Stability to electrolytes	Stable to acids and salts under usual tannery conditions
Dilution	1:3 with water of 30 – 40°C

### **Field of application**

In the chrome retanning and neutralization of chrome tanned leather and wet white leathers.

### **Properties**

- » ZSIVITAN RNFI catalyses with the chrome and improves its penetration exhaustion and fixation.
- » Catalyses with Free Formaldehyde present in tanning auxiliaries and reduces Formaldehyde trace upto 40% in leather.
- » Neutralizes deeply and evenly and has an excellent equalizing effect on the subsequent dyeing.
- » Provides leather with even dyeing and provides washable property to the leather.
- » Enhances penetration of fatliquors and improves good filling and also softening properties of other tanning auxiliaries.
- » Allows chrome retanning and neutralization in the same bath.
- » Has SELF BASIFYING property.
- » Hydrolysis the excess acid inside the fibres and fibrils and improves the fullness, firmness and tensile strength of the leather.

Continue...

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.*

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

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# ZSIVIRA

## ZSIVITAN RNFI

*Multifunctional Speciality Polymer*

### **Application:**

ZSIVITAN RNFI is added in the beginning of neutralisation. In case of chrome retanning it is applied after 30 minutes into retanning bath. Can also be used upto 2% in Pickle to improve strength and uniform chrome uptake.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN Nano – P

*Nano Polymer*

Chemical composition	Low molecular weight Nano Polymers
Solids	28 to 30%
Appearance	Clear liquid. May turn little yellow upon improper storage in long term
pH - value 1 : 10	6.0 – 6.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

ZSIVITAN Nano-P can be used in any article where looseness is to be avoided simultaneously maintaining the softness.

### **Properties :**

- » ZSIVITAN Nano-P provides excellent filling in loose portions of the leather maintaining and balancing the softness.
- » Being Nano Polymer it provides excellent bounciness and elasticity to the leather.
- » ZSIVITAN Nano-P due to its strong elastic affinity with the fibres enables the leather to withstand long hour milling without grain break or milling effect.
- » Best suitable for Shoe Uppers, Orthopaedic Linings, Regular Linings, Suedes, Drum Dyed articles, Cow Nappa, Sheep garment Nappa and Goods articles.
- » ZSIVITAN Nano-P when used along with our Bio Polymer ZSIVITAN PCW can convert even very old stock wetblue leathers with full cutting value.

### **Usage Quantities:**

In the Softy & upper leather : 4 – 6 %  
 Sheep garment leather : 3 – 5%  
 Goat Leathers : 3 – 6%  
 Buff Leathers : 3 – 6%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN AMP

**Speciality Polymer for loose leathers**

Chemical composition	Blend of Speciality Polymers
Solids	Approx 45% to 49%
Appearance	Pale Yellow to Clear liquid
pH - value 1 : 10	5.5 – 7.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

ZSIVITAN AMP is a special polymer blend used to produce leathers without looseness.

### **Properties :**

- » ZSIVITAN AMP produces leather with very good filling effect without disturbing the softness.
- » ZSIVITAN AMP produces leather with fine grain.
- » ZSIVITAN AMP is suitable for full grain, split leathers, nubuck, upholstery and all type of shoe articles.

### **Usage Quantities:**

ZSIVITAN AMP is applied ranging from 2 to 5% depending upon the final optique needed.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN RE

**Acrylic Polymer with dispersants**

Chemical composition	Blend of Poly acrylates
Solids	35 to 38%
Appearance	Amber viscous liquid. May turn little Reddish yellow upon storage in long term
pH - value 1 : 10	6.0 – 7.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Anionic retanning agent for all kinds of leather chrome tanned, semi-chrome and full vegetable leather.

### **Properties :**

- » ZSIVITAN RE is suitable for filling and tightening all types of chrome leathers without grain harshness.
- » Allow even dyeing with brilliant shades.

### **Usage Quantities:**

In the Softy & upper leather : 3 – 5% ZSIVITAN RE  
Garment leather : 3 – 4% ZSIVITAN RE

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN TPZ 340

**Micro Polymer**

Chemical composition	Condensated Micro Polymers
Solids	32% to 35%
Appearance	Clear liquid. May turn little dark upon storage in long term.
pH - value 1 : 10	5.0 – 5.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

ZSIVITAN TPZ 340 is a micro polymer used to avoid looseness and produce leather with coarse grain without affecting softness. Suitable for all types of leather like garment, nappa, lining, shoes, splits and upholstery.

### **Properties :**

- » ZSIVITAN TPZ 340 provides uniform filling throughout the leather without hardening the leather.
- » ZSIVITAN TPZ 340 will not affect the stretch ability of the leather.
- » The leather can be milled for long hours without affecting the grain pattern.
- » A combination of ZSIVITAN TPZ 340 along with ZSIVITAN PCW will give good body and rubbery character to even very thin leather.
- » Provides excellent light fastness and heat resistance.
- » Good for white leather and light colour dyeing.
- » Very good Grain structure and fine Grain setup.
- » Give anti crease effect on leather surface.

### **Usage Quantities:**

In the Softy & upper leather	: 4 - 6 %
Sheep garment leather	: Upto 4%
Goat Leathers	: 3 - 5%
Upholstery Leathers	: 3 - 5%
Lining and Splits	: Upto 5%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN MA

**Maleic Acrylic Copolymer**

Chemical composition	Maleic –Acrylic copolymer
Solids	30%
Appearance	Clear to Pale liquid
pH - value 1 : 10	5.5 – 6.5
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### **Field of application :**

In the retanning of chrome and semi-chrome tanned leather.

### **Properties :**

- » Gives a very fine and tight grain when used before neutralization..
- » When used after neutralization it provides leather with excellent dry drumable property thereby producing even break.
- » Allows an even dyeing with good light fastness

### **Application:**

ZSIVITAN MA can be applied alone or along with vegetable and other synthetic tannins.

In the Shoe Upper	: 2% - 6 % ZSIVITAN MA
Upholstery leather	: 2% - 6% ZSIVITAN MA
Bovine garment leather	: 2% - 3% ZSIVITAN MA
Sheep Garment	: 3% - 4% ZSIVITAN MA

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN MAM Liq

**Polymer Syntan**

Chemical composition	Organic Polymer
Activity	40 %
Appearance	Reddish Liquid
pH - value 1 : 10	7.5- 8.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application:**

Re-tanning and filling of all types of chrome and Vegetable leathers where body and tightness is most needed.

### **Properties :**

- » Specifically fills the loose parts of the leather like shoulder, belly & flanks.
- » Provides even fullness throughout the leather.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.
- » Improves buffing properties.
- » Improves body with fullness.

### **Usage Quantities:**

Full grain upper leather	: 3 - 6 %
Corrected grain upper leather	: 3 - 6%
Split Suedes	: 2 - 4 %
Upholstery / Sheep Nappa	: 4 - 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

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# ZSIVIRA

## ZSIVITAN F40

**Co-Polymer Resin Syntan**

Chemical composition	Copolymer Resin with fatty substrate
Solids	Approx 40% ± 3%
Appearance	Slight Beige to Off Whitish Fluid
pH - value 1 : 10	2.5 to 3.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

ZSIVITAN F40 is a special Copolymer Resin Condensate used to produce leathers without looseness. Used in Chrome tanning and also in retanning along with chrome.

### **Properties :**

- » ZSIVITAN F40 is a special Copolymer Resin Condensate used to produce leathers without looseness. Used in Chrome tanning and also in retanning along with chrome.
- » ZSIVITAN F40 produces leather with very good filling effect without looseness.
- » ZSIVITAN F40 provides excellent light fastness even in very long storage of leathers.
- » ZSIVITAN F40 is suitable for full grain, split leathers, nubuck, upholstery and all type of shoe articles.
- » ZSIVITAN F40 when applied in Split Suede will provide short nap and avoids looseness.
- » ZSIVITAN F40 produces white leather with excellent fullness and plumpness.
- » ZSIVITAN F40 is much more suitable for pastel dyeing and wet white leathers.

### **Usage Quantities:**

ZSIVITAN F40 is applied ranging from 2 - 6% depending upon the final character of the leather.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN VIP

**Vinyl Polymer condensate Emulsion**

Chemical composition	Vinyl Polymer Condensate
Solids	35% ± 2%
Appearance	Whitish Paste
pH - value 1 : 10	5 to 6
Charge	Anionic
Shelf life	Up to 8 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

ZSIVITAN VIP reduces looseness and stretch and produces tight and firm leathers.

### **Properties :**

- » ZSIVITAN VIP penetrates well into the leather fibers and cut the stretch and avoid the looseness.
- » It is suitable for split leathers where short nap is needed and stretch to be avoided.
- » Best suitable for Buffed articles, Nubucks and splits.
- » Improves tear strength by filling the fibrils.
- » Provides short and extremely fine nap in case of splits and suede.

### **Usage Quantity:**

Split : 2 - 4% at the end of drumming process  
 Nubuck : Upto 3%  
 Nubuck : 3 - 4% after neutralization and before adding retanning agents.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN R90

**Polymer Derivative**

Chemical composition	Condensated Polymer bridged with softeners
Solids	Approx 40% +/-2%
Appearance	Hazy Whitish Fluid
pH - value 1 : 10	5 to 5.5
Charge	Anionic
Shelf life	Up to 12 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

ZSIVITAN R90 is a Speciality Polymer bridged with softeners to give fullness without hampering the softness of the leather.

### **Properties :**

- » ZSIVITAN R90 produces leather with tightness along with softness.
- » It provides excellent light fastness even in long duration of storing leathers.
- » Due to its lubrication property, it Improves Tear /Tensile Strength.
- » Highly Suitable for Pastal dyeing and WET WHITE Leathers.
- » Can be used for Full Grain Leathers, Split Suedes, Nubuck, Upholstery, Split Leathers & Uppers.
- » Provides leather with uniform fullness and plumpness with soft inner handle.
- » Provides tightness with Good Grain Pattern in full grain leather.

### **Usage :**

ZSIVITAN R90 is applied ranging from 3 to 7% depending upon the final character of the leather.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN RA

Polymer Derivative

Chemical composition	Condensated Polymer
Solids	Approx 40% +/-2%
Appearance	Hazy to Clear Fluid
pH - value 1 : 10	4.5 to 5.5
Charge	Anionic
Shelf life	Up to 12 months from the date of manufacture
Dilution	Added Undiluted

### Field of application :

ZSIVITAN RA is a Polymer Condensated Derivative used to produce leathers without looseness. Used in Chrome tanning and also in retanning along with chrome.

### Properties :

- » ZSIVITAN RA produces leather with very good filling effect without looseness.
- » It provides excellent light fastness even in long duration of storing leathers.
- » Improves Tear /Tensile Strength.
- » Highly Suitable for Pastal dyeing and WET WHITE Leathers.
- » Can be used for Full Grain Leathers, Split Suedes, Nubuck, Upholstery, Split Leathers & Uppers.
- » When used in Split suede it provides short nap and reduces looseness.
- » Provides leather with uniform fullness and plumpness with rubbery handle.
- » Provides tightness with Good Grain Pattern in full grain leather.

### Usage :

ZSIVITAN RA is applied ranging from 2 to 6% depending upon the final character of the leather.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN CP

Special Polymer for Hydrophobic leathers

Chemical composition	Polymeric product of carboxylic acid and esters
Solids	Approx 40%
Appearance	Slight Pale Fluid
pH - value 1 : 10	6.5 – 7.0
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### Field of application

Special polymer for use in post tanning treatment process including water proof leathers.

### Properties

- » ZSIVITAN CP is a versatile high performance polymer used for dispersing and filling and enhances the performance of post tanning treatment processes and makes them workable in controlled manner.
- » ZSIVITAN CP Can be used in Neutralization, wet-back, retanning and fatliquoring.
- » ZSIVITAN CP is used in water-resistant leather such as shoe upper and car upholstery along with water proof fatliquors.
- » ZSIVITAN CP has excellent light fastness property and resistant to yellowish even at very high temperature plating.
- » ZSIVITAN CP has very low fogging value and hence suitable for automotive leather.
- » ZSIVITAN CP has good filling of loose portions.
- » ZSIVITAN CP helps the penetration of dyes and avoids spot formation and dye patch.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN DIZ

*Replacement Syntan*

Chemical composition	Phenol condensation product
Activity	95 %
Appearance	Light Tan to Off white powder
pH - value 1 : 10	3.0 – 4.5
Charge	Anionic
Shelf life	Upto 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application:**

For chrome and semi-chrome leathers and also chrome free leathers.

### **Properties and Usage:**

- » For the retanning of chrome upper leather 2 to 6% of ZSIVITAN DIZ may be used to produce a tight, fine grain with pale coloured leather.
- » ZSIVITAN DIZ provides leather with good fullness and imparts suppleness to the grain and enhances dye leveling with full shade under normally used acid and direct dyes.
- » ZSIVITAN DIZ will provide excellent filling when used in combination with ZSIVITAN ACR – resin and ZSIVITAN VEC or other vegetable extracts.
- » ZSIVITAN DIZ is most particularly suitable for crust leather for both full grain and corrected grain with optimum usage of 2 to 4%.
- » ZSIVITAN DIZ can replace 25% of vegetable tannin which will lead to a better and quicker penetration of the vegetable tannings with improved grain with smoothness and tensile strength.
- » ZSIVITAN DIZ can also be used as a bleaching syntan for vegetable tanned leather upto 3% for obtaining uniform bright colour.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN OSZ

*Replacement Syntan*

Chemical composition	Phenol condensation product
Solids	98 %
Appearance	Pale Tan powder
pH - value 1 : 10	5.5 to 6.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In the retanning of neutralised leather.

### **Properties :**

- » Gives a soft leather with a full handle and a fine grain.
- » Good filling properties.
- » Allows an even dyeing without patch.

### **Usage Quantities:**

In the Softy leather : 3% – 6% ZSIVITAN OSZ  
 Corrected grain leather : 3% – 4% ZSIVITAN OSZ  
 Garment leather : 3% – 5% ZSIVITAN OSZ

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

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# ZSIVIRA

## ZSIVITAN PWG

**Replacement Syntan**

Chemical composition	Phenol condensation product
Solids	98 %
Appearance	Pale Tan powder
pH - value 1 : 10	5.5 to 6.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In the retanning of neutralised leather.

### **Properties :**

- » Gives a soft leather with a full handle and a fine grain.
- » Good filling properties
- » Allows an even dyeing without patch.

### **Usage Quantities:**

In the Softy leather : 3% - 6 % ZSIVITAN PWG  
 Corrected grain leather : 3% - 4% ZSIVITAN PWG  
 Garment leather : 3% - 5% ZSIVITAN PWG

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN ID

**Replacement Syntan for White Leathers**

Chemical composition	Phenol condensation product
Activity	95 %
Appearance	Pale Pinkish white powder
pH - value 1 : 10	3.0 - 4.5
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### **Field of application:**

For chrome and semi-chrome leathers and also chrome free leathers.

### **Properties and Usage:**

- » For the retanning of chrome upper leather 2 to 6% of ZSIVITAN ID may be used to produce a tight, fine grain with pale coloured leather.
- » Provides leather with good fullness and imparts suppleness to the grain and enhances dye leveling with full shade under normally used acid and direct dyes.
- » Provides excellent filling when used in combination with ZSIVITAN TPZ340 – resin and ZSIVIROL FL506.
- » Particularly suitable for white crusting for both full grain and corrected grain with optimum usage of 2 to 4%.
- » It can also be used as a bleaching syntan for vegetable tanned leather upto 3% for obtaining uniform bright colour.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN WS CON

**Whitening Syntan**

Chemical composition	Phenol Sulfonic acid condensation product
Solids	97 %
Appearance	Off White Hygroscopic powder
pH - value 1 : 10	3.0 to 4.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### Field of application :

In the retanning of white and light coloured leathers.

### Properties :

- » Gives leather fullness and a fine grain.
- » Has excellent tanning action and hence is best suited for wet white and solo tannage.
- » Good filling properties.
- » ZSIVITAN WSCon when used along with natural extracts, catalyses the extracts and provide light colour dyeing possible with even dyeing and brilliant shades.
- » In Vegetable tannage pretanning with 3% to 4% ZSIVITAN WSCon will improve the colour of the leather and accelerates for quicker penetration of vegetable extracts.
- » ZSIVITAN WS Con provides good heat resistance which are essential for gloves and shoes used in iron and refractory industry.
- » Can be used in Pre-Tanning.

### Usage Quantities:

In white upper leather : 4% – 8% ZSIVITAN WSCon.  
 For Drum dyed articles : 4% – 6% ZSIVITAN WSCon.  
 El Pretanning : 2% – 4% ZSIVITAN WSCon.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN AK Liq

**Liquid Sulfone Syntan**

Chemical composition	Sulfone Condensation product
Solids	40 to 45%
Appearance	Reddish Brown Liquid
pH - value 1 : 10	3.0 – 4.0
Charge	Anionic
Shelf life	Upto 10 months from the date of manufacture
Dilution	Added Undiluted

### Field of application :

In all type of leathers where fullness with clean dyeing is needed.

### Properties :

- » Avoids highlighting of defects as it will not allow dyes to fix on the defects thereby the leather will have very uniform appearance.
- » It has full self tanning property and hence can be used for wet white tanning. When used along with Phosphonium and Aldehyde tanning it improves the light fastness and make leather without looseness and fine grain.
- » Excellent filling in loose portion. Hence no grain disturbance.
- » Completely solubilises the excess tannins in the veg leather by which dye patches will be avoided.
- » Provides excellent fullness and mellowness.
- » Good Print retention with light weight.
- » When used in El tanning one can completely eliminate the use of Mimosa Powder as ZSIVITAN AK Liq will provide the required fullness along with even light coloured shade.

### Usage Quantity :

In Sheep Nappa : Upto 6%  
 In Cow Softies : Upto 8%  
 In Goat Gloving : Upto 4%  
 In El Tanning : Upto 5%  
 In Shoe Upper : Upto 6%  
 In Wet White : Upto 6%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN AKP

**Sulfone Syntan Powder**

Chemical composition	Sulfone Condensation product
Solids	98%
Appearance	Off White Powder
pH - value 1 : 10	3.0 – 4.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In all type of leathers where fullness with clean dyeing is needed.

### **Properties :**

- » Gives leather fullness and a fine grain with good filling.
- » Has excellent tanning action and hence is best suited for wet white and solo tannage.
- » ZSIVITAN AKP when used along with natural extracts, catalyses the extracts and provide light colour dyeing possible with even dyeing and brilliant shades.
- » Can be used as a single syntan for white leathers and Brilliant pastel shade dyeing.
- » In Dyeing, it will not allow dye fix on the defects and hence the leather will have uniform shade without any dark spot on the defects.
- » Produces Leather with light weight.

### **Usage Quantity :**

In white upper leather	: Upto 8 %
For Drum dyed articles	: Upto 10%
El Pretanning	: 2% - 4%
Wet White Nappa	: Upto 4%
Garment Leathers	: Upto 4%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN AN

**Amphoteric Syntan**

Chemical composition	Aromatic Phenol Condensation Product
Solids	96 %
Appearance	Creamish powder
pH - value 1 : 10	3.5 – 4.5
Charge	Amphoteric
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Re-tanning and filling of all types of chrome and semi-chrome leathers.

### **Properties :**

- » ZSIVITAN AN being amphoteric special syntan can be used in all stages of rechroming and retanning.
- » ZSIVITAN AN produces leathers of light weight, smooth grain with soft feel.
- » ZSIVITAN AN is best for production of smooth nappa, nubuck and suedes.
- » ZSIVITAN AN enhances the filling action of vegetable extracts.
- » ZSIVITAN AN provides uniform dye ability both on grain and flesh side and improves dye intensity to the leather.

### **Usage Quantities:**

Cow nappa	: 2 - 3 % ZSIVITAN AN
Sheep nappa	: 3 - 4% ZSIVITAN AN
Nubuck	: 3 - 4 % ZSIVITAN AN

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN CBS

*Cresol Syntan*

Chemical composition	Cresol Condensated Product
Solids	98 %
Appearance	Off White powder
pH - value 1 : 10	3.5 – 4.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacturing
Dilution	Added Undiluted

### Field of application :

In the tanning retanning and post fatliquoring of all types special quality Leathers.

### Properties :

- » ZSIVITAN CBS gives leather fullness and a fine grain with good filling.
- » When used in New Zealand type ribby skins with double looseness, the product will completely fill the loose portions and produces a clean flat leather without any looseness.
- » ZSIVITAN CBS when used along with natural extracts, catalyses the extracts and provide room to produce very light pastel colour dyeing possible with evenness throughout the leather.
- » Excellent dye ability without dye patch.

### Quantities:

In white upper leather : Upto 8 % with ZSIVITAN RNFI  
 For Drum dyed articles : Upto 7%  
 El Pretanning : 2% - 4%  
 Loose Sheep skins : 5% - 10% along with ZSIVITAN RNFI  
 Soft Sheep Garments : 3% - 6%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

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# ZSIVIRA

## ZSIVITAN CZI

*Chrome Blended Syntan*

Chemical composition	Chromium Sulphate with Syntans
Activity	96 %
Appearance	Greenish Powder with white molecules
pH - value 1 : 10	4.0 to 4.5
Cr2O3 content	12%
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### Properties :

- » ZSIVITAN CZI imparts excellent smooth grain.
- » Provides excellent body and roundness to the leather.
- » Improves the fullness with good tensile strength.
- » When the procurement of wetblue is from different areas or origin using ZSIVITAN CZI will bring the uniformity to the various wetblue tannage thereby facilitates the further tanning process to achieve the required article.
- » ZSIVITAN CZI can be used for white leathers.

### Quantities:

Normally Up to 2 - 5% is given depending upon leather and tannage.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN CSP

**Spray Dried Chrome Syntan**

Chemical composition	Spray Dried Homogenous powder containing Chrome and Naphthalene Sulphonic Acid Condensate
Activity	98 %
Appearance	Pale Greenish Homogenous Powder
pH - value 1 : 10	3.0 to 4.0
Cr2O3 content	15%
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Properties :**

- » ZSIVITAN CSP imparts excellent smooth grain.
- » Provides excellent body and roundness to the leather.
- » Improves the fullness with good tensile strength.
- » When the procurement of wetblue is from different areas or origin using ZSIVITAN CSP will bring the uniformity to the various wetblue tannage thereby facilitates the further tanning process to achieve the required article.
- » ZSIVITAN CSP can be used for white leathers.
- » Provides even dye penetration with levelled dyeing.

### **Quantities:**

Normally Up to 2 to 5% is given depending upon leather and tannage.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN AL2

**Aluminium Syntan**

Chemical composition	Cationic Aluminium Salts
Aluminium Oxide content	24 ± 1%
Basicity	50 – 55%
pH - value 1 : 10	2.5 ± 1
Charge	Cationic
Appearance	Pale White Granules
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added to drum directly

### **Field of application :**

In the wet white tanning, chrome free tanning and chrome retanning, in the EI / Vegetable tanning , solo aluminium and semi aluminium tanning.

### **Properties**

- » ZSIVITAN AL2 provides soft, smooth leather with tight and firm grain.
- » ZSIVITAN AL2 has good filling effect.
- » ZSIVITAN AL2 does not harshen the grain layer.
- » ZSIVITAN AL2 due to its cationic action makes dyesuffs penetrate well into the leather and also makes dyeing surface evenly dyed with high light fastness.

### **Usage Quantity :**

In the Tanning (after Chrome tanning) : 1 - 2.5% ( on pelt weight)  
In Goatskin Suede, Nubuck and Shoe Upper : 2 - 5%  
Retanning of Vegetable tanned leather EI sheep and goat skins : 5 - 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN ALM

**Aluminium Syntan**

Chemical composition	Highly Cationic Aluminium Salts
Aluminium Oxide content	23 - 25 %
Basicity	50 ± 2%
pH - value 1 : 10	1.0 - 2.0
Charge	Cationic
Appearance	Pale White Powder
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added to drum directly

### **Field of application :**

In the wet white tanning, chrome free tanning and chrome retanning, in the EI / Vegetable tanning, solo aluminium and semi aluminium tanning.

### **Properties**

- » ZSIVITAN ALM provides soft, smooth leather with tight and firm grain.
- » ZSIVITAN ALM has good filling effect.
- » ZSIVITAN ALM due to its cationic action makes dyesuffs penetrate well into the leather and also makes dyeing surface evenly dyed with high light fastness.

### **Usage Quantity :**

In the Tanning (after Chrome tanning) : 2 - 3% (on pelt weight)  
 In Goatskin Suede, Nubuck and Shoe Upper : 3 - 5%  
 Retanning of Vegetable tanned leather  
 EI sheep and goat skins : 10 - 15%

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN ND

**Special Multifunctional Syntan**

Chemical composition	Naphthalene Sulfonic Acid condensation product
Solids	95 %
Appearance	Pale Brown powder
pH - value 1 : 10	6.5 to 8.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application:**

Neutralising of all types of chrome leather.

### **Properties**

- » Provides through and through neutralisation with uniform pH through the leather.
- » Enhances uniform distribution of vegetable extracts and avoids grain crack in vegetable tanning.
- » Best suitable for washable articles and drum dyed articles.
- » ZSIVITAN ND provides leather firmness without disturbing grain smoothness or grain pattern.
- » Enhances dye penetration and avoids dye patches.

### **Usage Quantities:**

Normally 1% - 3% is given depending upon leather and tannage requirement.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## NEUTRASOL NGZ

*Liquid Neutralising Syntan*

Chemical composition	Aromatic sulfonic acid with Buffering acids
Activity	46 to 50%
Appearance	Reddish Liquid
pH - value 1 : 10	7.5 - 8.5
Charge	Anionic
Shelf life	Upto 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Neutralising of all types of chrome leather.

### **Properties :**

- » Provides through and through neutralisation with uniform pH through the leather.
- » Completely neutralises the free acid in the leather and prepares for further tanning.
- » Does not loosen the leather.
- » In vegetable tanning it does not harshen grain structure as it masks the astringency of the vegetable extracts.
- » Enhances and helps dye penetration.
- » Basyfies the chrome in full extent thereby reduces Chrome VI risk.
- » Apart from Neutralising it also has retanning properties.

### **Usage Quantities:**

Normally 1% to 3% is given depending upon leather and tannage.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN NGZ-P

*Neutralising cum Dye levelling Syntan*

Chemical composition	Aromatic sulfonic acid with Buffering acids
Activity	98 %
Appearance	Pale Beige Powder
pH - value 1 : 10	7.5 - 8.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Neutralising of all types of chrome leather.

### **Properties :**

- » Provides through and through neutralisation with uniform pH through the leather.
- » Completely neutralises the free acid in the leather and prepares for further tanning.
- » Does not loosen the leather.
- » In vegetable tanning it does not harshen grain structure as it masks the astringency of the vegetable extracts.
- » Enhances and helps dye penetration.
- » Basyfies the chrome in full extent thereby reduces Chrome VI risk.
- » Apart from Neutralising it also has retanning properties.

### **Usage Quantities:**

Normally 1% - 3% is given depending upon leather and tannage.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN ZKM

**Neutralising Syntan**

Chemical composition	Aromatic Sulfonic Acid with Buffers
Activity	ca. 97 %
Appearance	Pale Brown powder
pH - value 1 : 10	8.0 - 8.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacturing
Dilution	Added Undiluted

### **Field of application :**

Neutralising of all types of chrome leather.

### **Properties :**

- » Provides through and through neutralisation with uniform pH through the leather.
- » Completely neutralizes the free acid in the leather and prepares for further tanning.
- » Does not loosen the leather and does not affect grain structure.
- » Improves dye penetration.
- » Basyfies the chrome in full extent thereby avoids Chrome VI risk.

### **Usage Quantities:**

Normally 2% is given depending upon leather and tannage.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## NEUTRITAN

**Multifunctional Neutralising Syntan for uppers**

Chemical composition	Blend of Complex inorganic and organic agents with buffering action.
Solids	95%
Appearance	Whitish powder
pH - value 1 : 10	7.5 - 9
Charge	Anionic
Shelf Life	Upto 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In the neutralising and basification of upper and upholstery.

### **Properties :**

- » With Neutritan optimum Neutralization is achieved and no chance of excess neutralization .
- » Neutritan reacts with the unbound chromium salts and converts them into favourable tanning complexes thereby reducing consumption of chrome tanning agents.
- » Neutritan having strong complexing acid groups reacts with excess sulphuric acid in the chrome complex and buffers it so that the leather will not loose its strength.
- » Neutritan helps to obtain uniform and leveled dyeing with anionic dyestuffs.
- » Neutritan enhances the penetration of fat liquors, vegetable tannins and other retanning agents.
- » Neutritan helps to drastically reduce Chrome VI formation.

### **Usage Quantities:**

In Neutralisation of Chrome Tanned Leather : 0.5% - 3 % NEUTRITAN  
0.5% - 1.5% SODA BI CARB  
In Chrome Basification : 0.5% - 2% NEUTRITAN  
: 0.25% - 0.5% SODA BI CARB

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

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# ZSIVIRA

## NEUTRITAN (Low pH)

*Multifunctional Neutralising Syntan for uppers*

Chemical composition	Blend of Complex inorganic and organic agents with buffering action.
Solids	95%
Appearance	Whitish powder
pH - value 1 : 10	5 – 5.5
Charge	Anionic
Shelf Life	Upto 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In the neutralising and basification of upper and upholstery.

### **Properties :**

- » With Neutritan optimum Neutralization is achieved and no chance of excess neutralization .
- » Neutritan reacts with the unbound chromium salts and converts them into favourable tanning complexes thereby reducing consumption of chrome tanning agents.
- » Neutritan having strong complexing acid groups reacts with excess sulphuric acid in the chrome complex and buffers it so that the leather will not loose its strength.
- » Neutritan helps to obtain uniform and leveled dyeing with Anionic dyestuffs.
- » Neutritan enhances the penetration of fat liquors, vegetable tannins and other retanning agents.
- » Neutritan helps to drastically reduce Chrome VI formation .

### **Usage Quantities:**

In Neutralisation of Chrome Tanned Leather : 1% - 3 % NEUTRITAN  
0.5% - 1.5% SODA BI CARB

In Chrome Basification : 1% - 2% NEUTRITAN  
0.25% - 0.5% SODA BI CARB

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN DP CON

*Dispersing & Dye Levelling Syntan*

Chemical composition	Aromatic sulfonic acid with Buffering acids
Activity	98 %
Appearance	Pale Beige Powder
pH - value 1 : 10	7.0 - 8.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Multipurpose syntan of all types of chrome and Vegetable leather.

### **Properties :**

- » Provides through and through neutralisation with uniform pH through out the leather.
- » Completely neutralises the free acid in the leather and prepares for further tanning.
- » Does not loosen the leather.
- » In vegetable tanning it does not harshen grain structure as it masks the astringency of the vegetable extracts.
- » Enhances and helps better and uniform dye penetration.
- » Basyfies the chrome in full extent thereby reduces Chrome VI risk.
- » Apart from Neutralising it also has retanning properties by producing fullness with flat grain.

### **Usage Quantities:**

Normally 2% - 3% is given depending upon leather and tannage.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZAMOL M

*Dispersing and Dye Levelling Syntan*

Chemical composition	Naphthalene sulfonic acid condensation product
Solids	ca. 97 %
Appearance	Pale Brown /Beige powder
pH - value 1 : 10	5.0 – 8.5
Charge	Anionic
Shelf life	Upto 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

As Dye Levelling , Dispersing and Dye Penetration Syntan.

### **Properties :**

- » Provides through and through penetration of dyes into the leather.
- » Enhances uniform dyeing.
- » Enhances dye penetration and avoids dye patches.

### **Usage Quantities:**

Normally 0.5% to 2% is given depending upon leather and tannage.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN M

*Dicyandiamide Condensation Syntan*

Chemical composition	Dicyandiamide condensation product
Solids	97 %
Appearance	Pale White powder
pH - value 1 : 10	7.0 – 8.5
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### **Field of application :**

Re-tanning and filling of chrome tanned and semi-chrome leathers.

### **Properties :**

- » Fills the loose parts of the leather like shoulder, belly & flanks.
- » Provides even fullness throughout the leather.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.
- » Improves buffing properties.

### **Usage Quantities:**

Full grain upper leather : 3 – 5 % ZSIVITAN M  
Corrected grain upper leather : 2 – 5% ZSIVITAN M  
Split Suedes : 2 – 4 % ZSIVITAN M  
Upholstery : 2 – 4% ZSIVITAN M

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA



# ZSIVIRA

## ZSIVITAN DCD

**Dicyandiamide Syntan**

Chemical composition	Dicyandiamide condensation product
Activity	ca. 95 %
Appearance	Pale Tan to Off white powder
pH - value 1 : 10	7.0 – 9.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### Field of application:

Re-tanning and filling of all types of chrome leather where body and tightness is most needed. Contains Free Formaldehyde

### Properties :

- » Specially fills the loose parts of the leather like shoulder, belly & flanks.
- » Provides even fullness throughout the leather.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.
- » Improves buffing properties.
- » Contains very less formaldehyde than conventional Dicyandiamide syntans.

### Usage Quantities:

Full grain upper leather	: 3 – 5 % ZSIVITAN DCD
Corrected grain upper leather	: 2 – 5% ZSIVITAN DCD
Split Suedes	: 2 – 4 % ZSIVITAN DCD
Upholstery	: 2 – 4% ZSIVITAN DCD

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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## ZSIVITAN ZR7

**Dicyandiamide Condensation Syntan**

Chemical composition	Dicyandiamide condensation product
Solids	97 %
Appearance	Pale White powder
pH - value 1 : 10	7.0 – 8.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### Field of application :

Re-tanning and filling of chrome tanned and semi-chrome leathers

### Properties :

- » Fills the loose parts of the leather like shoulder, belly & flanks.
- » Provides even fullness throughout the leather.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.
- » Improves buffing properties.

### Usage Quantities:

Full grain upper leather	: 3 – 5 %
Corrected grain upper leather	: 2 – 5%
Split Suedes	: 2 – 4 %
Upholstery	: 2 – 4%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN MH

**Melamine Condensation Syntan**

Chemical composition	Melamine condensation product
Solids	ca. 97 %
Appearance	Pale Beige powder
pH - value 1 : 10	5 – 6.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Re-tanning and filling of chrome tanned and semi-chrome leathers.

### **Properties :**

- » Fills the loose parts of the leather.
- » Improves the buffing properties.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.

### **Usage Quantities:**

Full grain upper leather	: 3 – 4% ZSIVITAN MH
Corrected grain upper leather	: upto 6% ZSIVITAN MH
Garment leathers	: 2 – 3% ZSIVITAN MH
Suede crusting	: 2 – 4% ZSIVITAN MH

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN MLM

**Melamine Syntan**

Chemical composition	Melamine Condensate
Activity	95 %
Appearance	Pale Tan to Off white powder
pH - value 1 : 10	7.0 – 9.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application:**

Re-tanning and filling of all types of chrome leather where body and tightness is most needed. Contains Free Formaldehyde

### **Properties :**

- » Specially fills the loose parts of the leather like shoulder, belly & flanks.
- » Provides even fullness throughout the leather.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.
- » Improves buffing properties.
- » Contains very less formaldehyde than conventional Dicyandiamide syntans.

### **Usage Quantities:**

Full grain upper leather	: 3 – 5 % ZSIVITAN MLM
Corrected grain upper leather	: 2 – 5% ZSIVITAN MLM
Split Suedes	: 2 – 4 % ZSIVITAN MLM
Upholstery	: 2 – 4% ZSIVITAN MLM

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN MRZ Liq

**Polymerised Melamine**

Chemical composition	Melamine encapsulated in Polymer
Activity	45 %
Appearance	Clear Transparent Liquid
pH - value 1 : 10	7.5- 8.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application:**

Re-tanning and filling of all types of chrome and Vegetable leathers where body and tightness is most needed.

### **Properties :**

- » Specifically fills the loose parts of the leather like shoulder, belly & flanks.
- » Provides even fullness throughout the leather.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.
- » Improves buffing properties.
- » Improves body with fullness.

### **Usage Quantities:**

Full grain upper leather	: 5 - 8 %
Corrected grain upper leather	: Upto 10%
Split Suedes	: 3 - 8 %
Upholstery	: Upto 10%
Sheep Nappa	: 4 - 6%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN MHPS

**Cross Condensated Melamine Syntan**

Chemical composition	Melamine Cross Condensated with Biopolymers
Solids	99 %
Appearance	Pale Beige powder
pH - value 1 : 10	6.5 - 7.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Re-tanning and filling of chrome tanned and semi-chrome leathers

### **Properties :**

- Fills the loose parts of the leather
- Improves the buffing properties
- Good Light fastness.
- Produce soft leather with a full handle and firm grain.

### **Usage Quantities:**

Full grain upper leather	: 3 to 5 % ZSIVITAN MHPS
Corrected grain upper leather	: upto 6% ZSIVITAN MHPS
Garment leathers	: 3 to 5 % ZSIVITAN MHPS
Suede crusting	: 2 to 4% ZSIVITAN MHPS

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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## ZSIVITAN DHPS

**Sulfone Syntan**

Chemical composition	Di Hydroxy Di Phenyl Sulfone Condensated Product
Solids	98 %
Appearance	Off White powder
pH - value 1 : 10	3.0 - 4.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### Field of application :

In the tanning retanning and post fatliquoring of special quality Leathers.

### Properties :

- » ZSIVITAN DHPS gives leather fullness and a fine grain with good colour.
- » When used in Veg Tanned Leather, it reduces the visibility of defects as it has a mild bleaching effect.
- » ZSIVITAN DHPS when used along with natural extracts, catalyses the extracts and provide room to produce very light pastel colour dyeing possible with evenness throughout the leather.
- » Excellent dye ability without dye patch.

### Quantities:

In white upper leather : Upto 6%  
 For Drum dyed articles : Upto 5%  
 Sheep skins : 3% - 5% along with RNFI  
 In Veg Articles : Upto 5%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN WW

**WET WHITE TANNING AGENT**

Chemical composition	Based on Organic Compounds
Solids	98 %
Appearance	White to Off-White powder
pH - value 1 : 10	4.0 to 5.0
Charge	Anionic
Shelf life	Up to 1 year from date of manufacture

### Field of application :

Used for tanning of all Kinds of Chrome free and Wet White Leathers.

### Properties :

- » ZSIVITAN WW is free of Phenol, Napthalene, Sulphone and Cresol.
- » Contains Zero Formaldehyde.
- » ZSIVITAN WW has excellent solo tanning properties and is highly suitable to make pure white leathers which is not possible with Gluteraldehyde tanning.
- » ZSIVITAN WW is compatible with other Organic, synthetic and natural tannins and hence can be used in the production of Chrome-Free Leathers and Wet-White leather.
- » Provides Pure white and Pastel colour dyeing possible with even dyeing and brilliant shades.
- » Provides soft and flexible leather with good body and fullness.
- » While using 3 to 4% of ZSIVITAN WW as pre-tanning agent in Vegetable tanning, it provides even distribution and penetration of vegetable extracts and ensures even dyeing.
- » Uniformity in dyeing with enhanced brilliancy in colour is a special character of ZSIVITAN WW

### Usage Quantities of ZSIVITAN WW in Tanning:

Cow Leather : 8% - 12%  
 Sheep and Goat Skins : 6% - 9%  
 Vegetable Retanning : 2% - 4%  
 Vegetable Pre-tanning : 3% - 4%  
 Fur Tanning : 5% - 7%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA



# ZSIVIRA

## ZSIVITAN ADS

**Multipurpose Syntan for Chrome Free and Wet-White Tanning**

Chemical composition	Silicon-di-oxide condensation product
Solids	95 %
Appearance	Off White powder
pH - value 1 : 10	7.0 to 9.0
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Solubility in water	Mostly Insoluble

### Field of application :

In the tanning and retanning of all kinds of leathers, mainly in Chrome-Free and Wet- White Leather Production.

### Properties :

- » ZSIVITAN ADS is free of Phenol, Napthalene, Cresol.
- » Contains Zero Formaldehyde.
- » ZSIVITAN ADS is compatible with other Organic, synthetic and natural tannins and hence can be used in the production of Chrome-Free Leathers and Wet-White leather.
- » Provide light colour dyeing possible with even dyeing and brilliant shades.
- » Provides soft and flexible leather with good body and fullness.
- » When used in Wetback, it improves dispersing and degreasing property and provides a clean white leather.
- » Can be used in Basifying and Neutralising to achieve the required pH.
- » While using before Dye, it improves the penetration of the dye and gives even dyeing with clear brilliant shades.
- » While using after dyeing it helps to maintain the pH higher than 4.5.

### Usage Quantities:

In Chrome Free Tanning : 4 - 10 % ZSIVITAN ADS  
 In Basifying /Neutralising : Wetblue : 1% , Crust : 2%  
 In Wet back : Wetblue : 1% , Crust : 2%  
 Before Dyeing : 1.5 - 2%  
 After Dyeing to attain pH above 4.5 : 1.5% - 2%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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## DERITAN FB6

**Melamine Condensation Syntan**

Chemical composition	Melamine condensation product
Solids	97 %
Appearance	Pale Beige powder
pH - value 1 : 10	5.5 - 6.5
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### Field of application :

Re-tanning and filling of chrome tanned and semi-chrome leathers

### Properties :

- » Fills the loose parts of the leather
- » Improves the buffing properties
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.

### Usage Quantities:

Full grain upper leather: : 3 to 4 %  
 Corrected grain upper leather : upto 6%  
 Garment leathers : 2 to 3  
 Suede crusting : 2 to 4%  
 (Garment & shoe)

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## DERITAN R7

Replacement Syntan

Chemical composition	Dicyandiamide condensation product
Solids	97 %
Appearance	Pale Yellow Brown powder
pH - value 1 : 10	6.0 – 7.0
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### Field of application :

Re-tanning and filling of chrome tanned and semi-chrome leathers

### Properties :

- » Fills the loose parts of the leather like shoulder, belly & flanks.
- » Provides even fullness throughout the leather.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.
- » Improves buffing properties.

### Usage Quantities:

Full grain upper leather	: 3 to 5 %
Corrected grain upper leather	: 2 to 5%
Split Suedes	: 2 to 4 %
Upholstery	: 2 to 4%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## DERITAN DOS

Replacement Syntan

Chemical composition	Phenol condensation product
Solids	98 %
Appearance	Beige powder
pH - value 1 : 10	5.5 - 6.0
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### Field of application :

In the retanning of neutralised leather.

### Properties :

- » Gives a soft leather with a full handle and a fine grain.
- » Good filling properties
- » Allows an even dyeing without patch.

### Usage Quantities:

In the Softy leather	: 3 to 6 %
Corrected grain leather	: 3% to 4%
Garment leather	: 3% to 5%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## DERITAN SNW

Whitening Syntan

Chemical composition	Phenol Sulfonic acid condensation product
Solids	97 %
Appearance	Off White Hygroscopic powder
pH - value 1 : 10	5.5 - 6.5
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### Field of application :

In the retanning of white and light coloured leathers.

### Properties :

- » Gives leather fullness and a fine grain.
- » Has excellent tanning action and hence is best suited for wet white and solo tannage.
- » Good filling properties.
- » DERITAN SNW when used along with natural extracts, catalyses the extracts and provide light colour dyeing possible with even dyeing and brilliant shades.
- » In Vegetable tannage pretanning with 5% DERITAN SNW will improve the colour of the leather and accelerates for quicker penetration of vegetable extracts.
- » Can be used in Pre-Tanning

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN ZLB

Milling Syntan

Chemical composition	Sulfone Condensate
Solids	Approx 40% ± 3%
Appearance	Reddish liquid
pH - value 1 : 10	Approx 1.5 - 2.0
Shelf life	Up to 10 months from the date of manufacture.
Stability to electrolytes	Stable to acids and salts under usual tannery conditions
Dilution	1:3 with water of 30 - 40° C

### Field of application :

For all type of milled articles with light weight and bold milling effect.

### Properties :

- » ZSIVITAN ZLB is made specially for milled articles to get bold grains even in thin leathers.
- » Has excellent tanning and filling properties.
- » Creates milled pattern almost throughout the leather with even break.
- » Provides Good and even dyeability.
- » Distributes the natural fat and fatliquors evenly within the leather and produces leather with very light weight.
- » Excellent filling in loose portions.

### Usage:

Depending upon the effect ZSIVITAN ZLB is used from 8% to 20%.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN MLS-N

**Milling Syntan**

Chemical composition	Based on Sulfone
Solids	Approx 40%
Appearance	Pale Reddish Brown liquid
pH - value 1:10	Approx 6 - 7
Shelf life	Upto 10 months from the date of manufacture
Stability to electrolytes	Stable to acids and salts under usual tannery conditions
Dilution	1:3 with water of 30 - 40° C

### **Field of application :**

For all type of milled articles with light weight.

### **Properties :**

- » ZSIVITAN MLS-N is made specially for milled articles.
- » Has excellent tanning and filling properties.
- » Creates fine milled with even break.
- » Provides Good and even dyeability.
- » Distributes the natural fat and fatliquors evenly within the leather and produces leather with very light weight.
- » Excellent filling in loose portions.

### **Usage:**

Depending upon the effect ZSIVITAN MLS-N is used from 8% to 20%.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN ZLB-R liq

**Liquid Sulfone Condensate**

Chemical composition	Liquid Sulfone Condensate free of Bisphenols and Free formaldehyde
Solids	42 ± 2%
Appearance	Pale Yellow to Pale Red Liquid
pH - value 1:10	2.0 - 4.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In production of chrome and chrome free leathers where fullness, tightness with clean dyeing is needed.

### **Properties :**

- » ZSIVITAN ZLB-R liq gives leather very good fullness and a smooth and fine grain with specific filling in loose areas.
- » Exhibits excellent light fastness and heat migration fastness and hence suitable for white and pastel shade dyeing .
- » When used in Wet White it will provide brilliant white colour.
- » Can be used as a single syntan for white leathers and provides Brilliant shade in pastel colour dyeing.
- » In Dyeing, it will not allow dye fix on the defects and hence the leather will have uniform shade without any dark spot on the defects.
- » In vegetable tanning it improves the colour and light fastness and better dispersion of veg tans.
- » Best suitable for Nubuck and suedes as it provides close grain and improves buffing property.

### **Usage Quantities :**

Wet White Pre-Tanning	: 4 - 6%
Retanning	: 3 - 4%
In Rechroming along with chrome	: 2 - 3% (after reducing pH)

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN ZLX

**Sulfone Syntan Powder**

Chemical composition	Sulfone Condensate free of Bisphenols and free formaldehyde
Solids	98%
Appearance	White Powder
pH - value 1 : 10	3.0 – 4.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In production of chrome free leathers where fullness, tightness with clean dyeing is needed.

### **Properties :**

- » ZSIVITAN ZLX gives leather very good fullness and a smooth and fine grain with good filling.
- » Exhibits excellent light fastness and heat migration fastness and hence suitable for white and pastel shade dyeing .
- » When used in Wet White it will provide brilliant white colour.
- » Can be used as a single syntan for white leathers and Brilliant pastel shade dyeing.
- » In Dyeing, it will not allow dye fix on the defects and hence the leather will have uniform shade without any dark spot on the defects.
- » In vegetable tanning it improves the colour and light fastness and better dispersion of veg tans.
- » Best suitable for Nubuck and suedes as it provides close grain and improves buffing property.

### **Usage Quantities :**

Wet White Pre-Tanning : 3 – 4%  
 Retanning : 3 – 8%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## BISFREE TAN SWL liq

**Liquid Sulfone Condensate**

Chemical composition	Liquid Sulfone Condensate free of Bisphenols and Free Formaldehyde
Solids	44 ± 3%
Appearance	Pale Yellow Liquid (Turns Reddish on Ageing)
pH - value 1 : 10	2.0 – 4.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

In production of chrome and chrome free leathers where fullness, tightness with brilliancy is needed.

### **Properties :**

- » BISFREE TAN SWL Liq is free From BISPENOL A,F and AF and Formaldehyde contains small form of BISPENOL S, which will not be found in leather after application.
- » BISFREE TAN SWL liq gives leather very good fastness and a smooth and fine grain with specific filling in loose areas.
- » Exhibits excellent light fastness and heat migration fastness and hence suitable for pastel shade dyeing.
- » Can be used as a single syntan for white leathers and provides Brilliant shade in pastel colour dyeing.
- » Reduces defects visibility.
- » In vegetable tanning it improves the colour and light fastness and better dispersion of veg tans.
- » Suitable for chrome and vegetable tanning and retanning.

### **Usage Quantities :**

Pre-Tanning : 3 – 6%  
 Retanning : 3 – 5%  
 In Rechroming along with chrome : 3 – 4% (after reducing pH)

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## BISFREE TAN APS

*Cross Condensated Synthetic Tannins*

Chemical composition	Synthetic Tannin Condensate
Solids	96 ± 2 %
Appearance	Pale Beige powder
pH - value 1:10	5.5 – 7.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application:**

Re-tanning of chrome tanned and semi-chrome leathers.

### **Properties:**

- » Free of Bisphenols and Formaldehyde.
- » Fills the loose parts of the leather.
- » Improves the buffing properties.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.

### **Usage Quantities:**

Full grain upper leather	: upto 5%
Corrected grain upper leather	: upto 6%
Garment leathers	: upto 5%
Suede crusting	: upto 4%

*Note: The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## BISFREE TAN ZPS

*Cross Condensated Polymer Tannins*

Chemical composition	Synthetic Polymer Condensate
Solids	98± 2 %
Appearance	Pale Beige powder
pH - value 1:10	5.0 – 7.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application:**

Re-tanning of chrome tanned and semi-chrome leathers.

### **Properties:**

- » Free of Bisphenols and Formaldehyde.
- » Fills the loose parts of the leather.
- » Improves the buffing properties.
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.

### **Usage Quantities:**

Full grain upper leather	: upto 6 %
Corrected grain upper leather	: upto 6%
Garment leathers	: upto 6 %
Suede crusting	: upto 5%

*Note: The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## BISFREE TAN ZPC

**Cross Condensated Synthetic & Polymer Tannins**

Chemical composition	Synthetic Tannin Polymer Condensate
Solids	95 ± 2 %
Appearance	Pale Beige powder
pH - value 1 : 10	5.5 – 7.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### Field of application :

Re-tanning of chrome tanned and semi-chrome leathers.

### Properties :

- » Free of Bisphenols and Formaldehyde
- » Fills the loose parts of the leather
- » Improves the buffing properties
- » Good Light fastness.
- » Produce soft leather with a full handle and firm grain.

### Usage Quantities:

Full grain upper leather	: upto 5 %
Corrected grain upper leather	: upto 6%
Garment leathers	: upto 5 %
Suede crusting	: upto 4%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## BISFREE TAN XJL

**Bisphenol & Formaldehyde free Compact Tanning**

Chemical composition	Organic and Natural Polycondensate
Active matter	45 ± 2 %
Appearance	Light Beige viscous Fluid
pH - value 1 : 10	5.0 – 5.5
Charge	Anionic
Light Fastness	Good
Stability to electrolytes	Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 1 year at temperatures between 5 and 40° C.

### Properties:

- » BISFREE TAN XJL is a compact tanning system which replaces most regular fatliquors and syntans usage.
- » Free from Formaldehyde and Bisphenols.
- » Best for White and Pastel shade dyeing.
- » Thoroughly fills up the loose portion entirely without affecting the softness.
- » Produces uniform clear grain with bouncy character and has excellent light fastness.
- » Best for Garment, shoe upper, Lining, Cow Nappa and Upholstery leathers.

### Usage (on wetblue weight):

Sheep Garment (wet blue to crust)	: 10 - 14%
Sheep Shoe Nappa (wet blue to crust)	: 12 - 15%
Sheep Lining (wet blue to crust)	: 10 - 14%
Cow Nappa (wet blue to crust)	: 18 - 22%
Cow Softy (wet blue to crust)	: 18 - 25%

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.

Store within 5°C to 35°C in original pack with tightly closed.

The above information on application on leather is given in accordance to the best of our knowledge and our lab applications. As the usage of the product by the consumer is not under our control, we are not liable for any sort of claims or reimbursements. The product is given without any guarantee/warranty in connection to end use.

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## BISFREE TAN WJ

*Hydrolysed and Polymers Tannins*

Chemical composition	Tannin Condensate
Solids	45 ± 2 %
Appearance	Opaque Liquid
pH - value 1 : 10	5.0 – 6.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application :**

Re-tanning of chrome tanned and semi-chrome leathers.

### **Properties :**

- » Free of Bisphenols and Formaldehyde
- » Fills the loose parts of the leather
- » Provides tightness and firmness
- » Good Light fastness.
- » Produce tight leather with a full handle and firm grain.

### **Usage Quantities:**

Full grain upper leather : upto 6 %  
 Corrected grain upper leather : upto 5%  
 Garment leathers : upto 4 %

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.*

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## COLLOIDTAN 9M

*Bio Polymeric Colloidal Tanning Agent*

Chemical composition	Bio Polymeric Colloid
Active matter	48 to 50 %
Appearance	Off- White viscous Fluid
pH - value 1 : 10	4.0 – 5.5
Charge	Anionic
Light Fastness	Good
Stability to electrolytes	Stable to acids and salts under usual tannery conditions.
Shelf life	Up to 1 year at temperatures between 5 and 40° C.

### **Properties:**

- » COLLOIDTAN 9M is produced by adopting revolutionary COLLOID TECHNIQUE and can be used as a single major product in retanning. Free from Bisphenols and Formaldehyde.
- » It is an eco friendly tanning agent for chrome leather, vegetable tanned leathers and also wet white leathers.
- » It is FREE of Phenol and Formaldehyde and complies REACH Norms.
- » It can be used as a single product by replacing most General Fatliquors, phenolics, Dicyandiamide, Melamine and Acrylic Polymers.
- » COLLOIDTAN 9M thoroughly fills up the loose portion entirely without affecting the softness.
- » Produces uniform clear grain with bouncy character and has excellent light fastness.
- » Best for Garment, shoe upper, Lining, Cow Nappa and Upholstery leathers.

Continue...

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
 Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## COLLOIDTAN 9M

**Bio Polymeric Colloidal Tanning Agent**

**Usage (on wetblue weight):**

Sheep Garment Nappa	: 10 to 14%
Sheep Shoe Nappa	: 15 to 20%
Sheep Lining	: 12 to 15%
Cow Nappa	: 18 to 22%
Cow Softy	: 20 to 25%
Cow Lining	: 15 to 20%
Cow Split Suede	: 20 to 24%
Goat Shoe Nappa	: 12 to 15%
Goat Upper	: 15 to 18%
Goat Suede	: 25 to 28%
Buff Nappa	: 12 to 18%

For fine tuning the process it is recommended to add little percentage of fatliquors or syntans depending upon the article to be achieved.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same. Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## COLLOIDTAN CRO

**Colloidal Polycondensate Emulsion**

Chemical composition	Colloidal Polycondensate Emulsion bonded with Fatt Esters
Solids	Approx 40% +/-2%
Appearance	Slight Beigeto Off Whitish Fluid
pH - value 1 : 10	3 to 4
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

**Field of application :**

COLLOIDTAN CRO is a special Polycondensate used to produce leathers without looseness. Used in Chrome tanning and also in retanning along with chrome.

**Properties :**

- » COLLOIDTAN CRO produces leather with very good filling effect without looseness. Free from Bisphenols and formaldehyee.
- » It provides excellent light fastness even in long duration of storing leathers.
- » Highly Suitable for Pastal dyeing and WET WHITE Leathers.
- » Can be used for Full Grain Leathers, Split Suedes, Nubuck, Upholstery, Split Leathers & Uppers.
- » When used in Split suede it provides short nap and reduces looseness.
- » Provides leather with excellent fullness and plumpness with rubbery handle.

**Usage :**

COLLOIDTAN CRO is applied ranging from 2 to 6% depending upon the final character of the leather.

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# ZSIVIRA

## ZSIVITAN PA

**Protein Syntan**

Chemical composition	Fortified Proteins
Activity	ca. 98%
Appearance	Pale White Powder
pH - value 1 : 10	6.0 – 7.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### Field of application :

In the retanning to correct the problem of uneven looseness and firmness of leather

### Properties :

- » ZSIVITAN PA is an eco friendly syntan fortified with complimentary filling agents.
- » ZSIVITAN PA is made with selected rich proteins and hence does not fade the colour in case of dark colour tanning.
- » When applied along with ZSIVITAN RNFI , on top it provides excellent roundness and firmness and avoids looseness.

### Usage Quantities:

In the Suede	: 3% – 6 % ZSIVITAN PA
Split Leather	: 5% – 8% ZSIVITAN PA
Sheep garment leather	: 4% – 5% ZSIVITAN PA
In Thick Shoe Upper	: 2% – 5% of ZSIVITAN PA
In Thin Shoe Upper	: 3% – 7% of ZSIVITAN PA

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN WE

**Vegetable Extract**

Chemical composition	Blend of Natural tannins
Appearance	Light tan powder
pH - value 1 : 10	5.5 – 6.5
Charge	Anionic
Natural Tannin content (%) (analysis by SLTC method)	48% ± 2%
Condensed Tannin Content (%) (analysis by IS 13527 method)	75% ± 2%
Solubles in hot water @ 70°C (%) (JEL Test Method)	98%
Insoluble (%)	1% to 2%
Moisture (%)	5% to 8%
Red Tans (Standard Lovibond Tintometer Test)	0.3
Yellow Tans (Standard Lovibond Tintometer Test)	3.5
Iron as Fe (%)	0.25%
Ash(%)	1.5%
Cr2O3 content (%)	NIL
Salt as Na2So4 (ppm)	120 ppm to 180 ppm

### Field of application

In the retanning of neutralised leather and more specifically for shoe uppers.

### Properties :

- » Gives tight leather with firm grain.
- » Good filling properties.
- » Allows an even dyeing with brilliant shades.
- » Does not harsh the grain structure.
- » Provides good body.

### Application:

ZSIVITAN WE is applied on neutralized leathers alone or along with other syntans or vegetable tannins. The Usage quantity depends on the final leather article requirement which varies from 4% – 25%.

**Note :** The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.

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# ZSIVIRA

## ZSIVITAN VEC

**Vegetable Extract**

Chemical composition	Blend of Gambier and Japonica
Appearance	Reddish powder
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added diluted

### **Field of application :**

In the retanning of neutralised leather and more specifically for shoe uppers.

### **Properties:**

- » Gives tight leather with firm grain.
- » Good filling properties.
- » Allows an even dyeing with brilliant shades.

### **Usage :**

ZSIVITAN VEC is used as a cost saving product to replace 25% of the quantity of vegetable extracts such as Mimosa, Quebracho and Chestnut

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN VEC Liq

**Vegetable Extract**

Chemical composition	Blend of Liquid Gambier and Japonica
Appearance	Reddish Syrup
Shelf life	Up to 10 months at temperatures between 5 and 40° C.
Dilution	Added diluted

### **Field of application :**

In the retanning of neutralised leather and more specifically for shoe uppers.

### **Properties:**

- » Gives tight leather with firm grain.
- » Good filling properties
- » Allows an even dyeing with brilliant shades.

### **Usage :**

ZSIVITAN VEC Liq is used as a cost saving product to replace 25% of the quantity of vegetable extracts such as Mimosa, Quebracho and Chestnut

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
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# ZSIVIRA

## ZSIVITAN CV

**Vegetable Compact Syntan**

Chemical composition	Blend of Natural and Synthetic tannins
Appearance	Light tan powder
pH - value 1:10	4.5 - 5.0
Charge	Anionic
Shelf life	Up to 1 year at temperatures between 5 and 40° C.
Dilution	Added Undiluted

### **Field of application**

In the retanning of neutralised leather and more specifically for shoe uppers.

### **Properties :**

- » Gives tight leather with firm grain.
- » Good filling properties with roundness.
- » Allows an even dyeing with brilliant shades.
- » Best for shoes, uppers, nubuck, split articles

### **Application:**

The Usage quantity depends on the final optique requirement which varies from 4% to 25%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN RV

**Vegetable Compact Syntan**

Chemical composition	Blend of Natural tannins
Appearance	Reddish tan powder
pH - value 1:10	4.0 - 5.5
Charge	anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application**

In the retanning of neutralised leather and more specifically for shoe uppers and goods.

### **Properties :**

- » Gives tight leather with firm grain.
- » Good filling properties with roundness
- » Allows an even dyeing with brilliant deep shades.
- » Best for shoes, uppers, nubuck, split articles
- » Provides slight burnish effect.

### **Application:**

The Usage quantity depends on the final optic requirement which varies from 6% - 20%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN PVW

**White Vegetable Extract**

Chemical composition	Selective Vegetable Extract Condensate
Appearance	Whitish powder
Shelf life	Upto 10 months from the date of manufacture
pH 10%	3.5 to 4.0

### **Field of application :**

In the retanning of neutralised leather splits, bag leather, garment, upholstery and more specifically for shoe uppers.

### **Properties:**

- » Excellent Light Fastness.
- » Gives tight leather with firm grain.
- » Good filling properties.
- » Provides very good body and rubbery feel with flat grain.
- » Increases affinity to dyes and Enhances uniformity of dyeing without patch.
- » Excellent dye bath exhaustion.
- » Provides excellent buffing property and writing effect in Nubuck and suedes.
- » Short Nap is produced which is suitable for shoe suedes.

### **Usage:**

Depending on articles it is used from 3% - 10%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN CWV

**Modified White Vegetable Extract**

Chemical composition	Condensate from Selective Vegetable Extracts
Appearance	Whitish powder
Shelf life	Up to 10 months from the date of manufacture
pH 10%	3.0 to 4.5

### **Field of application :**

In the retanning of neutralised leather splits, bag leather, garment, upholstery and more specifically for shoe uppers.

### **Properties:**

- » Excellent Light Fastness.
- » Gives tight leather with firm grain.
- » Good filling properties.
- » Provides very good body and rubbery feel with flat grain.
- » Increases affinity to dyes and Enhances uniformity of dyeing without patch.
- » Excellent dye bath exhaustion.
- » Provides excellent buffing property and writing effect in Nubuck and suedes.
- » Short Nap is produced which is suitable for shoe suedes.

### **Usage:**

Depending on articles it is used from 2% - 8%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## BISONTAN GR1

**Wattle Extract Solid**

Chemical composition	Veg Tannins
Activity	ca. 95%
Appearance	Reddish Brown Solid
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added diluted

### **Properties:**

For fine tuning the process it is recommended to add little percentage of fatliquors or syntans depending upon the article to be achieved.

### **Field of application :**

In the retanning of neutralised leather and more specifically for shoe uppers.  
For Vegetable tanned Leathers.

### **Properties :**

- » Gives tight leather with firm grain.
- » Good filling properties
- » Allows an even dyeing with brilliant shades.
- » Provides excellent dye depth with brilliancy.
- » Impart fullness with body.
- » Best for burnish articles.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN VTE

**Vegetable Compact Syntan**

Chemical composition	Blend of Natural Tannins and Organic Resin
Appearance	Beige Powder
Solids	96 ± 2%
pH - value 1 : 10	4.0 – 5.0
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application**

In the retanning of neutralised leather and more specifically for garments, shoes and softness where filling with body is required.

### **Properties :**

- » Provides leather with full and tight grain with smooth surface.
- » Good filling properties with roundness.
- » Provides good dye penetration and even dyeing throughout the leather.
- » Best for shoes, uppers, nubuck, split articles.
- » Reduces Chrome VI formation on ageing.

### **Application:**

The Usage quantity depends on the final optic requirement which varies from 5% - 12%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.*

*Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN VTR

**Vegetable Compact Syntan**

Chemical composition	Blend of Natural Tannins and Organic Resin
Appearance	Beige Powder
Solids	96 ± 2%
pH - value 1 : 10	4.0 – 4.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application**

In the retanning of neutralised leather and more specifically for garments, shoes and softness where filling with body is required.

### **Properties :**

- » Provides leather with full and tight grain with smooth surface.
- » Good filling properties with roundness.
- » Provides good dye penetration and even dyeing throughout the leather.
- » Best for shoes, uppers, nubuck, split articles.
- » Reduces Chrome VI formation on ageing.

### **Application:**

The Usage quantity depends on the final optic requirement which varies from 5% - 12%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN VMR

**Vegetable Compact Syntan**

Chemical composition	Blend of Natural Tannins and Organic Resin
Appearance	Brownish Powder
Solids	96 ± 2%
pH - value 1 : 10	4.0 – 4.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application**

In the retanning of neutralised leather and more specifically for Shoes Uppers, Milled articles and Softness where filling with body is required.

### **Properties :**

- » Provides leather with full and tight grain with smooth surface.
- » Good filling properties with roundness.
- » Provides good milling effect in milled articles with print retention.
- » Best for shoes, uppers, nubuck, split articles.

### **Application:**

The Usage quantity depends on the final optic requirement which varies from 5% - 10%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN VCH

**Vegetable Compact Syntan**

Chemical composition	Blend of Natural tannins with and Organic resins
Appearance	Pale Reddish Brown powder
Solids	96 ± 2%
pH - value 1 : 10	4.0 – 5.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application**

In the retanning of neutralised leather and more specifically for garments, shoes and softines where filling with body is required.

### **Properties :**

- » Gives tight leather with firm grain.
- » Good filling properties with roundness.
- » Produces flexible and bouncy leather.
- » Best for shoes, uppers, nubuck, split articles.
- » Provides Burnishing effect.
- » Provides even dyeing with uniformity.

### **Application:**

The Usage quantity depends on the final optic requirement which varies from 5% to 15%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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# ZSIVIRA

## ZSIVITAN VQC

**Vegetable Compact Syntan**

Chemical composition	Blend of Natural tannins with and Organic resins
Appearance	Reddish Brown powder
Solids	96 ± 2%
pH - value 1 : 10	5.0 – 5.5
Charge	Anionic
Shelf life	Up to 10 months from the date of manufacture
Dilution	Added Undiluted

### **Field of application**

In the retanning of neutralised leather and more specifically for garments, shoes and softness where filling with body is required.

### **Properties :**

- » Gives tight leather with firm grain.
- » Good filling properties with roundness.
- » Produces flexible and bouncy leather.
- » Best for shoes, uppers, nubuck, split articles.

### **Application:**

The Usage quantity depends on the final optic requirement which varies from 5% - 15%.

*Note : The product being combination of various raw materials, there are chances of variations in colour and viscosity. The property and application of the product will remain same.  
Store within 5°C to 35°C in original pack with tightly closed.*

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*Smart Chemistry*

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