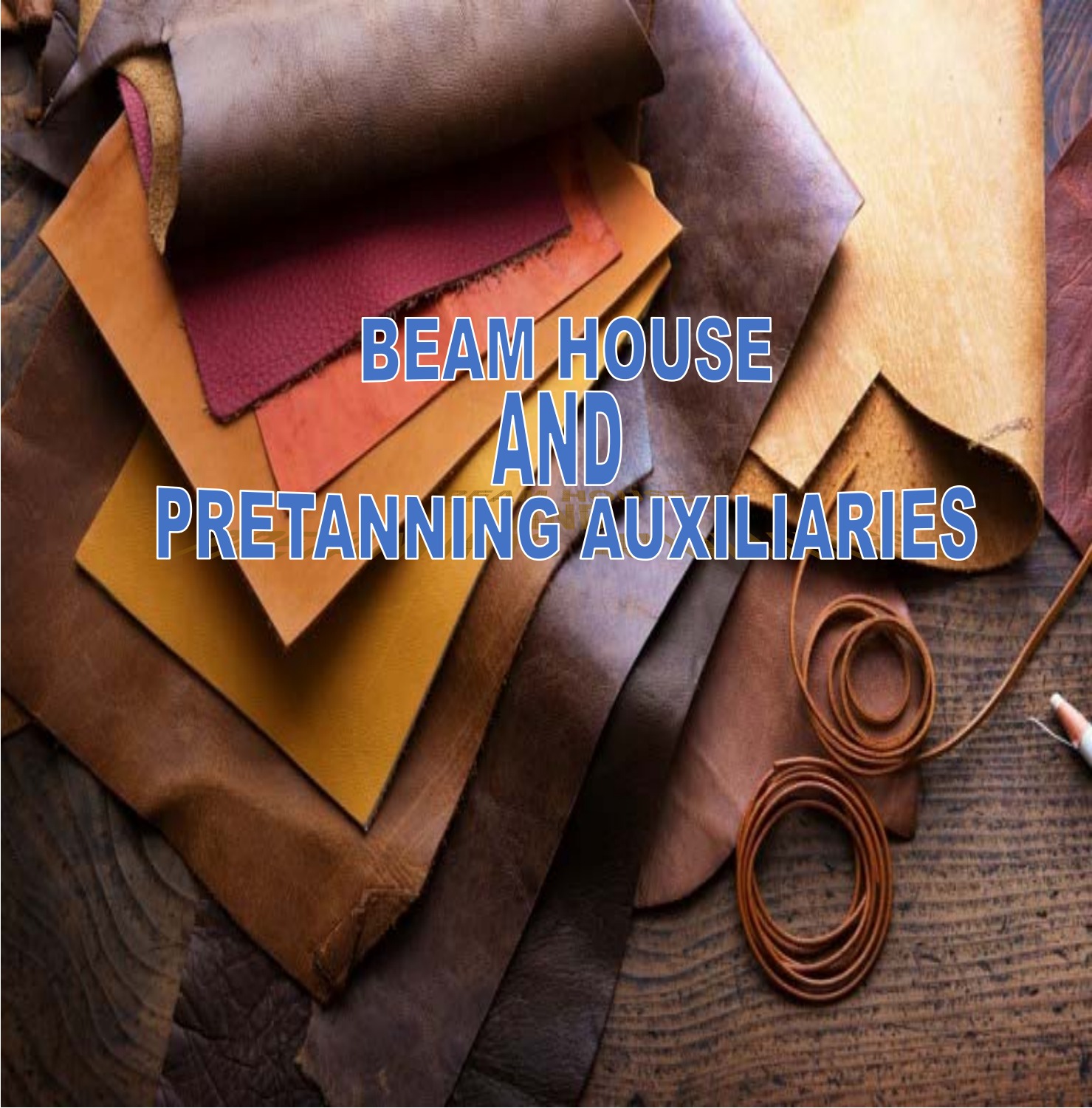


Manufacturers of Leather Dyes & Tanning Chemicals

C-24, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400031 India • Tel : +91-22-2415 6162 / 2415 613  
Email : [parth@parth-international.co.in](mailto:parth@parth-international.co.in) • Website: [www.parth-international.co.in](http://www.parth-international.co.in)



# BEAM HOUSE AND PRETANNING AUXILIARIES

Please visit our website [www.leatherdyes.co.in](http://www.leatherdyes.co.in) for more information.

## **PARASOL SEA** **(Soaking & Emulsifying Agent)**

**PARASOL SEA** is Fatty Alcohol based strong wetting cum emulsifying agent that helps to open not only fibers but also helps to emulsify natural fats & oils.

### **ADVANTAGES :**

- > Strong wetting agent to open up fibers & emulsify natural fats & oils.
- > When used in liming before starting the dosage of Lime & Sodium Sulphide, it helps in reducing the astringency and so helps for better dissolution and penetration of lime & sulphide so reduce the chance of wrinkles into the leather.
- > When used in deliming alongwith deliming agents, it helps in better cleaning of hides and reduce chance of residual lime into the pelt.
- > When used in bating, it reduces astringency of bating enzymes and helps in protecting grain from the attack of bating agents & reduce chance of grain off.
- > When used in pickling just after adjusting pH, **PARASOL SEA** helps in better exhaustion of Chrome Powder.

### **SPECIFICATIONS :**

Appearance	: Clear Transparent Viscous Liquid
Basis	: Fatty Alcohol Emulsifier
pH of 10% soln.	: 6.5 ~ 7.5
Solids	: 30% ± 2%
Solubility	: Soluble in warm water
Light Fastness	: Very Good
Stability	: Stable at all pH

### **APPLICATION :**

Soaking	: 0.5% ~ 1.0% on Raw Weight
Liming	: 1.0% ~ 1.5% on Raw Weight
Deliming	: 0.5% ~ 0.8% on Pelt Weight
Bating	: 0.3% ~ 0.5% on Pelt Weight
Pickling	: 0.5% ~ 0.8% on Pelt Weight

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## **PARASOL SEA ULTRA** **(Soaking & Emulsifying Agent)**

**PARASOL SEA ULTRA** is Non - Ionic Fatty Alcohol based strong wetting cum emulsifying agent that helps to open not only fibers but also helps to emulsify natural fats & oils.

### **ADVANTAGES :**

- > Strong wetting agent to open up fibers & emulsify natural fats & oils. It excellently removes natural fats from hides & skins.
- > **PARASOL SEA ULTRA** helps to emulsify rigid fats even from dried flints.
- > **PARASOL SEA ULTRA** has ability to emulsify natural fats as well.
- > When used in liming before starting the dosage of Lime & Sodium Sulphide, **PARASOL SEA ULTRA** helps in reducing the astringency and so helps for better dissolution and penetration of lime & sulphide so reduce the chance of wrinkles into the leather.
- > When used in deliming alongwith delimiting agents, **PARASOL SEA ULTRA** helps in better cleaning of hides and reduce chance of residual lime into the pelt.
- > When used in bating, **PARASOL SEA ULTRA** reduces astringency of bating enzymes and helps in protecting grain from the attack of bating agents & reduce chance of grain off.
- > When used in pickling just after adjusting pH, it helps in better exhaustion of Chrome Powder.

### **SPECIFICATIONS :**

Appearance	: Clear Transparent Liquid
Basis	: Fatty Alcohol Based Emulsifier
pH of 10% soln.	: 7.0 ~ 9.0
Solids	: 30% $\pm$ 1%
Solubility	: Excellent
Light Fastness	: Very Good

### **APPLICATION :**

Soaking	: 0.3% ~ 0.5% on Raw Weight
Liming	: 0.3% ~ 0.5% on Raw Weight
Delimiting	: 0.2% ~ 0.3% on Pelt Weight
Bating	: 0.1% ~ 0.2% on Pelt Weight
Degreasing	: 0.5% ~ 1.0% on Pelt Weight
Pickling	: 0.3% ~ 0.5% on Pelt Weight
Wet Back	: 0.2 ~ 0.5% on Shaved Weight
With Fatliquor	: 5.0% ~ 10.0% of total fatliquor being used

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## **PARALIME SED ULTRA**

(Soaking & Enzymatic Dehairing) Similar to **Basozym L 10 (BASF)**

**PARALIME SED ULTRA** is a blend of selected proteases with very effective dehairing properties. Dehairing is achieved by breakdown of the outer and inner sheath and roots of hair. Skin mucoids are also hydrolysed resulting in loosening of hair.

### **ADVANTAGES :**

- > Reduction in the use of sulphide, lime water and processing time.
- > Flat and firm grain.
- > Wrinkle free pelt.
- > Free from collagenase and hence no damage to skins/hides.
- > Helps tanners address pollution problem effectively.
- > Reduced water consumption.
- > Faster soaking and easier dehairing.
- > Time saved is money earned.
- > Perfectly balanced enzyme for trouble free liming.

### **SPECIFICATIONS :**

Appearance	: Off white Powder
pH of 10% soln.	: 9.5 ~ 10.5
Moisture	: Max. 4%
Solubility	: 98 ± 2%
Optimum Temp.	: 30 ° C ~ 35° C

### **APPLICATION :**

Apply slurry/paste on the flesh side, pile and keep covered.

**PARALIME SED ULTRA** should be added before adding lime.

Optimum pH at which **PARALIME SED ULTRA** works effectively is from 7.5 – 11.5.

Soaking : 0.5% ~ 1.0% on Raw Weight

Dehairing : 0.4% ~ 0.6% on Raw Weight

## **PARASCAL BW**

**(Bactericide & Soaking Agent) - Similar to MOLLESCAL BW (BASF)**

**PARASCAL BW** accelerates the soaking and liming process of both salted and dried raw hides and skins and provides adequate protection against bacterial damage which may occur during soaking.

### **SPECIFICATIONS :**

Appearance	: Colourless and odourless low-viscosity liquid.
Nature	: Combination of an organic sulphur compound, wetting agent and a bactericide.
pH of 10% soln.	: 9.5 ~ 11.0
Charge	: Anionic
Stability	: Stable to acids, alkalis and salts under usual tannery conditions.
Solubility	: Miscible in all proportions with water.

### **ADVANTAGES :**

- > Accelerates the soaking process by its good wetting properties.
- > Prevents from bacteria growth even in prolonged soaking process.
- > The effect of soaking enzymes is not affected.
- > It exerts a particularly active effect on soluble proteins, blood and grease residues.

### **APPLICATION :**

Salted raw hides and skins are presoaked to remove the dirt and then depending on the both length and the soaking time, they are soaked in a fresh both containing 0.3-0.7% **PARASCAL BW** and about 0.3-0.5% Soda Ash calculated on the salted weight. The temperature of the both depends on the soaking time and should generally be maintained at 25-30°C

#### **Salt Cured Hides**

In pre-soaking	: 0.2 ~ 0.3 %
In Main soaking	: 0.2 ~ 0.4 %

#### **Dried Hides**

In pre-soaking	: 0.3 ~ 0.5 %
In Main soaking	: 0.4 ~ 0.7 %

## **PARA-SLIP P POWDER**

**(Slip Agent) Similar to Mollescal AG (BASF)**

### **SPECIFICATIONS :**

Appearance	: Creamish Whitesh Fine Powder of Light Weight
Chemical Type	: Mixture of inorganic and organic compounds.
Active Matter	: 95%
pH of 10% soln.	: 6.5 ~ 7.0
Ionic Nature	: Neutral
Stability	: Two years

### **ADVANTAGES :**

- > Prevents entanglement and knotting as well as rubbing marks during production of leather in the drum.
- > Allow higher loading capacity of the drums without disadvantages for the propulsion.
- > Improves the yield.
- > Makes short float processes possible.

### **APPLICATION :**

**PARA-SLIP P POWDER** is recommended for the following processes:

- > During short float liming, 0.4% together with liming chemicals.
- > During degreasing of sheep pickle pelts, 0.5% calculated on pelt weight.
- > During neutralization, 0.3% calculated on shaved weight.
- > During retanning, dyeing, fattiquoring, 0.4% calculated on shaved weight.
- > During tanning with vegetable and/or synthetic tanning materials, 0.5% calculated on shaved weight.

### **REMARKS :**

The components of **PARA-SLIP P POWDER** do not react with collagen. **PARA-SLIP P POWDER** can be easily washed off with water.

## PARA-WET WJ40

### Wetting Agent

#### SPECIFICATIONS :

Appearance	: Light Pale Yellow Clear Liquid
Solubility	: Complex active Surfactant
Activity	: 40 ± 1 %
pH of 10% soln.	: 9.0 ~ 10.0
Charge	: Non Ionic
Solubility	: Miscible with water

#### ADVANTAGES :

**PARA-WET WJ40** has the following properties:

- > **PARA-WET WJ40** is an active non-ionic detergent, dispersant emulsifier and wetting agent. It is widely accepted by the Tanners as an effective dispersant, natural grease and Chrome Soaps. By removing natural Fats and Chrome Soaps, it helps in uptake of all chemicals used in subsequent operations specially dyeing and finishing.
- > A small percentage of **PARA-WET WJ40** helps in quick and proper soak back in processing antique leather.

#### APPLICATION :

- > **PARA-WET WJ40** helps in uniform soaking and liming.
- > After bating a small percentage of it helps a lot in washing out the scuds, excess lime, salts, natural fats and the proteins dissolved by enzymes.
- > **PARA-WET WJ40** when used in pickle bath, it reduces pickle time and results in uniform pickling.
- > **PARA-WET WJ40** can also be used effectively in degreasing operation. It helps to dissolve the natural fats and wash it out.
- > For soak back of dry hides and skins, shaved Wet Blue and dried crust, **PARA-WET WJ40** is widely used by the tanners.
- > A small percentage of it when used along with Main Fatliquor Combination, imparts fine emulsions of the fatliquor mix which helps in quick penetration of fat in deep inside the compact fibre structure. Finally more softness is achieved without greasiness to the leather surface.
- > Use of **PARA-WET WJ40** in different operations as mentioned above increases the hungriness of the leather surface evenly and thereby causes uniform absorption of finishes.

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**PARALIME LA LIQUID**  
**( AMINE BASED LIMING AUXILIARY )**  
Similar to **MOLLESCAL LA (BASF)**

**PARALIME LA LIQUID** is a liming auxiliary used for easier and effective dehairing and reduces the swelling of pelts.

**SPECIFICATIONS :**

Appearance	: Colourless or slightly yellowish liquid.
Nature	: Blend of amino compounds.
pH of 10% soln.	: 10.5
Total Solids	: 50 $\pm$ 2 %
Solubility	: Miscible in all proportions with water. Does not contain Sodium Sulphide

**ADVANTAGES :**

- > **PARALIME LA LIQUID** reduces the lime swelling effect and diminishes the formation of wrinkles and drawn grain.
- > **PARALIME LA LIQUID** produces a clean and scudfree grain surface and the result is that very smooth, clean pelts are obtained
- > With **PARALIME LA LIQUID** dosage of Sodium Sulphide and Sodium Sulphydrate can be reduced.
- > **PARALIME LA LIQUID** enables the chemicals employed in the liming process to penetrate through the leather skin more evenly. The result is that the pelts swell more evenly and the chemicals can be utilized more efficiently.
- > The pelts are very clean and very smooth after they have been limed.
- > Growth marks, folds and blood vessels are much less prominent.

**APPLICATION :**

**PARALIME LA LIQUID** is added undiluted before the application of Sodium Sulphide.

The dosage depends on the type of raw stock and the float length. It is usually sufficient to add 0.5-1.5% **PARALIME LA LIQUID**, expressed as a proportion of the salted weight.



## PARALIME LA POWDER / PARALIME LA H/C ( AMINE BASED LIMING AUXILIARY )

**PARALIME LA POWDER** is a liming auxiliary used for easier and effective dehairing and reduces the swelling of pelts.

### SPECIFICATIONS :

	<b>PARALIME LA POWDER</b>	<b>PARALIME LA H/C</b>
Appearance	: Light Red Brown Powder	Light Red Brown Powder
Nature	: Linear Amine	Linear Amine
Ionic Nature	: Strongly Anionic	Strongly Anionic
pH of 10% soln.	: 9.5 ~ 10.5	9.5 ~ 10.5
Concentration	: 28 ± 2 %	<b>70 ± 2 %</b>
Solubility	: Soluble in water	Soluble in water

### ADVANTAGES :

- > **PARALIME LA POWDER** has strong buffering action towards activity of Lime.
- > **PARALIME LA POWDER** reduces astringency of lime and Sodium Sulphide so reduces grain swelling.
- > **PARALIME LA POWDER** controls swelling & helps to improve yield.
- > **PARALIME LA POWDER** loosens hair root & helps in smooth scudding.
- > In small skins and light hides, **PARALIME LA POWDER** helps to reduce the percentage dosage of lime & sulphide

### APPLICATION :

**PARALIME LA POWDER** to be added in the beginning of Liming before the charge of Lime and Sodium Sulphide.

1.2% ~ 1.5% based on raw weight and run for 30 minutes before charging first dosage of Lime / Sodium Sulphide or Sodium Sulphate.

### **PARALIME LA H/C**

**PARALIME LA H/C** is concentrated **PARALIME LA POWDER**. This product has 70% concentration & can be reduced by adding water to required concentration.

## **PARADELIMER DL** **( DELIMING AGENT )**

**PARADELIMER DL** is a deliming auxiliary to used for removing lime and to activate chrome exhaustion during tanning.

### **SPECIFICATIONS :**

Appearance	: White to Yellowish Powder
Nature	: Blend of Organic & Inorganic Salts
pH of 10% soln.	: 5
Solubility	: Easily soluble in water

### **ADVANTAGES :**

- > **PARADELIMER DL** is a granular white to yellowish powder which dissolves slowly, hence there is no Acid swelling.
- > **PARADELIMER DL** acts very quickly and very light and smooth pelts are obtained.
- > **PARADELIMER DL** gives an even deliming effect and completely removes the lime and activates chrome - exhaustion during tanning.

### **APPLICATION :**

**PARADELIMER DL** is added undiluted and may be used in normal floats.  
Depending on the thickness and lime content of the pelts, 0.5 ~ 1.5% of **PARADELIMER DL** can be used.

## **PARADELIMER DE** **( NITROGEN FREE DELIMING AGENT )** **Similar to DECALTAL A-N (BASF)**

**PARADELIMER DE** is a Nitrogen Free deliming auxiliary to used for removing lime and to activate chrome exhaustion during tanning.

### **SPECIFICATIONS :**

Appearance	: White to Yellowish Coarse Powder
Nature	: Blend of Organic & Inorganic Acids
pH of 10% soln.	: 5
Solubility	: Easily soluble in water

### **ADVANTAGES :**

- > **PARADELIMER DE** is a granular white to yellowish powder. The acids dissolves very slowly so there is no Acid swelling.
- > **PARADELIMER DE** is based on Nitrogen free raw materials, reducing waste water treatment cost.
- > **PARADELIMER DE** gives very light pelts and leathers with fine grain.
- > **PARADELIMER DE** gives an even deliming effect and completely removes the lime and activates chrome - exhaustion during tanning.

### **APPLICATION :**

**PARADELIMER DE** is added undiluted and may be used in normal floats. It is also used in Dry Deliming. Depending on the thickness and lime content of the pelts, 0.5 ~ 1.5% on Pelt Weight of **PARADELIMER DL** can be used.

Sometimes 0.3 ~ 0.9% on Pelt Weight of Fatty Alcohol Based Emulsifier is also used during Deliming to dissolve & remove lime during deliming.

## **PARABATE AL / ALK / ALK ULTRA CONC.** **( ALKALI BATE )**

**PARABATE AL / ALK / ALK ULTRA CONC.** is an enzymatic bating agent which works in alkaline range. **PARABATE AL / ALK / ALK ULTRA CONC.** is a versatile bating agent based on proteolytic enzymes for all types of leather. This is an optimal blend of proteolytic enzymes from animal and microbial sources. The tailor-made formulation has also lipolytic side activities which help in removing the fatty tissues adhering to the skin and thus facilitating an optimum bating action.

### **ADVANTAGES :**

- > **PARABATE AL / ALK / ALK ULTRA CONC.** ensures efficient loosening of scud consisting of short hairs, grease, lime soaps, dark coloured pigments and traces of epidermis, resulting in a fine and silky grained leather.
- > **PARABATE AL / ALK / ALK ULTRA CONC.** has proteolytic enzymes which ensure optimal removal of non-leather forming proteinaceous material like albumin, globulins and mucoids from the hides and skins.
- > **PARABATE AL / ALK / ALK ULTRA CONC.** gives a more elastic grain without increasing the “loose grain” tendency.
- > **PARABATE AL / ALK / ALK ULTRA CONC.** slackens the hide structure gently without causing excessive decomposition of the flanks.
- > **PARABATE AL / ALK / ALK ULTRA CONC.** Good scud loosening, smooth grains, even in strongly “fallen” pelts. For improved scud loosening special auxiliary agents may be additionally used.

### **SPECIFICATIONS :**

	<b>PARABATE AL</b>	<b>PARABATE ALK</b>	<b>PARABATE ALK ULTRA CONC.</b>
Activity	: 800 LVU/GM	1500 LVU/GM	15000 LVU/GM
Appearance	: Off white to pale brown, free flowing powder		
pH of 10% soln.	: 8.5 ~ 9.5		
Optimum Temp.	: 35 ° C ~ 45° C		

### **APPLICATION :**

It is to be dosed at 0.6 –1% based on the pelt weight. It is better to dissolve formulations made with **PARABATE AL / ALK / ALK ULTRA CONC.** separately in little quantity of water before adding to the bating bath.

## **PARABATE ACS / AC / AC ULTRA CONC.** **( ACID BATE )**

**PARABATE ACS / AC / AC ULTRA CONC.** is an enzymatic bating agent which works in acidic range. **PARABATE ACS / AC / AC ULTRA CONC.** is a versatile bating agent based on proteolytic enzymes for all types of leather. This is an optimal blend of proteolytic enzymes from animal and microbial sources. The tailor-made formulation has also lipolytic side activities which help in removing the fatty tissues adhering to the skin and thus facilitating an optimum bating action.

### **ADVANTAGES :**

**PARABATE ACS / AC / AC ULTRA CONC.** is a bating agent for use between pH 3.5-4.5. It serves for bating of limed and pickled pelts as well as enzymatic slackening of wet blues and vegetable synthetic crust leather.

Use of **PARABATE ACS / AC / AC ULTRA CONC.** yields following effects :

- > Preserves the hide substance and gives the leather a very tight grain.
- > Maintains substance even in areas such as flanks.
- > Improves the feel, the uniformity of colour and firmness of grain
- > Good scud loosening, smooth grain strongly fallen pelts. Auxiliary agents may be used for further improvements in scud loosening.

### **SPECIFICATIONS :**

	<b>PARABATE ACS</b>	<b>PARABATE AC</b>	<b>PARABATE AC ULTRA CONC.</b>
Activity	: 800 LVU/GM	: 1500 LVU/GM	: 15000 LVU/GM
Appearance	: Off white to pale brown, free flowing powder		
pH of 10% soln.	: 3.5 ~ 4.5		
Optimum Temp.	: 35 ° C ~ 40° C		

### **APPLICATION :**

It is to be dosed at 0.5 - 1.0% of the pelt weight. **PARABATE ACS / AC / AC ULTRA CONC.** shows maximum activity at pH between of 3.5-4.5. The pH should be constantly maintained during bating and formic acid diluted 1:10 should be added if the pH rises above 4.5.

### **PACKING & SHELF LIFE :**

**PARABATE ACS / AC / AC ULTRA CONC.** is available in 25 Kgs bag packing and can be stored upto 6 months in a cool and dry place.

## **PARAGREASE ED** **( ENZYMATIC DEGREASING )**

**PARADEGREASE ED** is a specialised enzyme blend of selected lipases with specific degreasing properties that ensure effective fat hydrolysis. Fat removal is achieved by hydrolysis of fat mucoids resulting in reduction of the cohesion of the cementing of the fat fibers leading to loosening of the fat from the scud. Lipases in our **PARAGREASE ED** help in effective degreasing, better penetration and ensures total removal of fat from the skins.

### **SPECIFICATIONS :**

Appearance	: Off water to palebrown, freeflowing powder
pH of 10% soln.	: 8.5 ~ 10.5
Optimum Temp.	: 35 ° C ~ 45° C
Activity	: 5000 Luv/Gm

### **ADVANTAGES :**

- > **PARADEGREASE ED** reduces process time.
- > **PARADEGREASE ED** reduces usage of other degreasing agents.
- > Less pollution, more safety and less waste water.
- > Increased output due to shorter process time.
- > Consequent saving of labour and power.

### **APPLICATION :**

0.50% ~ 1.50% on Raw Weight in beam house

0.5% ~ 1.50% on Shaved weight when used in degreasing and/or wetting of wet blue.

## **PARAGREASE OC**

**Strong Wetting & Aqueous Degreasing Agent for all types of Leather  
Similar to EUSAPON OC ( BASF )**

**PARAGREASE OC** is a degreasing agent with high efficiency and very good biodegradability for all kind of skins that contain big amount of natural fat.

### **SPECIFICATIONS :**

Appearance	: Easily pourable light yellow liquid.
Chemical Constitution	: Combination of nonionic wetting agent and fatty alcohol.
Ionic Charge	: Non Ionic
pH of 10% soln.	: 6.5 ~ 7.5 %
Stability	: Resistant to salts, acid & alkaline baths in usual work conditions.
Dissolution	: Should be added directly to the floats or previously diluted with warm water : untill obtaining fluid consistency.

### **ADVANTAGES :**

**PARAGREASE OC** has the following properties:

- > Efficiency of degreasing is better than obtained using ethoxylated nonylphenol (8-90E) in the same conditions.
- > Full biodegradability and low toxicity of compounds generated after degradation.
- > Low foam production.
- > Suitable to degrease ecologically all types of skins.
- > A strong wetting & degreasing agent for natural fat in the leather.
- > Helps to emulsify in process of degreasing, so that the emulsified fats maintain softness.
- > Helps in effective cleaning of dirt, blood & dung, when being used in soaking.
- > Helps to wet back of Flints or long-aged raw hides & skins, where rigid fats does not emulsify easily.

### **APPLICATION :**

1.0 – 2.0% on raw & pelt weight in beam house.

0.5 – 2.0% on shaved weight when used in degreasing and/or wetting of wet blue.

## **PARAPICALTAL S POWDER**

**Eco –friendly non-swelling pickling agent**

**( Reduces pickling time by almost half )**

**Similar to DECALTAL PIC S (BASF)**

**PARAPICALTAL S POWDER** does not swell the pelt and can, therefore, be applied with 1-2% of any salt.

### **SPECIFICATIONS :**

Nature : Mixture of aromatic sulphonic acid with organic compounds.  
Appearance : Off white Powder  
pH of 10% soln. : 0.7 ~ 1.0

**PARAPICALTAL S POWDER** is hygroscopic. On prolonged exposure to air, the product absorbs some moisture which will not impair the effectiveness of the product.

By using **PARAPICALTAL S POWDER** it is possible to carry out pickling and chrome tanning with just 1-2% of any salt. The skin enters the tanning process in its natural plumped condition. As a result, a more uniform and more intensified penetration of the tannin by the pelt is achieved, so that leathers with exceptional fullness a fine, smooth grain and mellow handle are obtained. It can also be used for water proof leather

### **APPLICATION :**

30 ~ 40% Water  
Add : 1.0 ~ 2.0 % Common Salt Run for 10 Mins.  
Add : 3.0 ~ 4.0 % PARAPICALTAL S POWDER Run for 2 ~ 4 Hrs.  
Add : 6.0 ~ 7.0 % Basic Chromium Sulphate Run for 2 ~ 3 Hrs.  
Add : 100% Water  
Add : 0.3 ~ 0.5 % PARATAN BFR Run for 6 Hrs. - pH 3.8 ~ 4.0

### **ADVANTAGES :**

- > Reduces pickling time by almost half.
- > Leathers with exceptional fullness, a fine, smooth grain and mellow handle are obtained.
- > No addition of sulphuric acid is required and hence reduces mineral salts in effluent. So effluent is eco-friendly.
- > Better uptake and exhaustion of chrome by which it reduces chrome consumption.
- > Safe and easy in application.

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## **PARATAN MO** **MAGNESIUM OXIDE BASED BASIFYING AGENT**

### **SPECIFICATIONS :**

Appearance	:	Light Brown Fine Powder
Nature	:	Magnesium Oxide
Concentration	MgO	81 ~ 82%
	CaO	2.25 ~ 2.8%
	LOI	2.5 ~ 3.5%
	SiO <sub>2</sub>	10 ~ 12%
	Al <sub>2</sub> O <sub>3</sub>	11 ~ 12%
	Others	2%
pH of 10% soln.	:	9.0 ~ 10.0
Optimum Temp.	:	35 °C ~ 45° C

### **ADVANTAGES :**

- > **PARATAN MO** regulates a gradual increase in pH without initial rapid increase normally observed with sodium carbonate or sodium bicarbonate etc., leading to perfect and levelled chrome distribution throughout the cross section of collagen and a smooth and light coloured grain.
- > Its fine particle size totally eliminates the risk of abrasion to the pelt and ensures best results.
- > **PARATAN MO** reacts with sulphuric acid to give only soluble salts. Alkalis based on calcium when used lead to formation of insoluble calcium sulphate in the pelt, which has a detrimental effect on the dyeing and can result in white stains on dyed leather.
- > Has a strong Complexing action with Basic Chrome Sulphate so basifying action even at very low dosage
- > Unlike NaHCO<sub>3</sub> this product does not give erratic pH jump after feeding, so helps in gradual pH rise and so gradual basification
- > Is not recommended at high dosage, other wise result in over basification.
- > Mild deliming with buffering in nature, so has less impact on grain while removal of lime

### **APPLICATION :**

- > 0.4 – 0.6% on pelt weight
- > After complete penetration of Chrome through the Cross section of Hides and skins.
- > It is put in 2-3 installments and after pH is achieved, left for 4-6 hrs for gradual complexing of Chrome.
- > In case, if in some cases, pickling pH go tremendous down, then may need 0.5% of NaHCO<sub>3</sub> to adjust pH, however, if it is left for some time, pH will automatically be achieved and tanning is obtained.

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Manufacturers of Leather Dyes & Tanning Chemicals

C-24, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400031 India • Tel : +91-22-2415 6162 / 2415 613

Email : [parth@parth-international.co.in](mailto:parth@parth-international.co.in) • Website: [www.parth-international.co.in](http://www.parth-international.co.in)



# DYEING AUXILIARIES

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## **PARA - OSA POWDER**

**Powerful organic sequestering agent**

### **SPECIFICATIONS :**

Appearance	: White Powder
Chemical Constitution	: Mixture of E.D.T.A. and modified Meta phosphate
Active Matter	: $90 \pm 2$ %
pH of 10% soln.	: 10.0 ~ 11.0 at 20 Deg C
Chelation value as mg. of CaCO <sub>3</sub> per gm.	: $220 \pm 5$

### **ADVANTAGES :**

It helps in solublising, levelling and penetration of various type of dyes while using single dye or mixture of dyes. In case of mixture of Dyes it gives equal penetration of all dyes. It also acts as water softening agent.

### **APPLICATION :**

0.25%-0.5% on shaved weight of leather is to be added alongwith dye for better results.



## **PARA - POSA POWDER**

**Powerful organic sequestering agent**

### **SPECIFICATIONS :**

Appearance	: White Powder
Chemical Constitution	: Mixture of E.D.T.A. and modified Polyphosphate
Active Matter	: $90 \pm 2$ %
pH of 10% soln.	: 9.5 ~ 10.5 at 20 Deg C
Chelation value as mg. of CaCO <sub>3</sub> per gm.	: $220 \pm 5$

### **ADVANTAGES :**

It helps in solublising, levelling and penetration of various type of dyes while using single dye or mixture of dyes. In case of mixture of Dyes it gives equal penetration of all dyes. It also acts as water softening agent.

### **APPLICATION :**

0.25%-0.5% on shaved weight of leather is to be added alongwith dye for better results.

## **PARA-LIX DA**

**Amphoteric dispersant of natural fats and chrome tanning salts.  
Similar to TERGOLIX IA ( CLARIENT )**

### **SPECIFICATIONS :**

Appearance	: Clear, very slightly viscous liquid.
Chemical Constitution	: Amphoteric fatty acid derivative containing water solubilizing groups.
Activity	: $50 \pm 2$ %
pH of 10% soln.	: 7.5 ~ 8.5
Storage Stability	: Good
Solubility	: Miscible with water in any proportion.
Stability	: Very good to acids, salts and alkalis.
Compatibility	: Very good with anion-active (including vegetable tanning materials), non-ionic and cation-active products.

### **ADVANTAGES :**

**PARA-LIX DA** has the following properties:

- > Promotes even distribution of chromes and fats throughout the cross-section of the leather.
- > Disperses the natural fats.
- > Helps to promote level dyeings.
- > Enhances the softness of the leather.
- > Avoids drawn grain when used in semi-chrome tannage.

### **APPLICATION :**

#### **In the pickle and in chrome tannages**

**PARA-LIX DA** can be employed both in the pickle and in chrome tannages. The dispersing effect on natural fats is the same in both cases, as is the improvement in the distribution of the chrome tanning salt. The pickling process can be further accelerated by the use of **PARA-LIX DA**. The product is preferable added about 20 min. before the pickling salt and acid. In chrome tannage **PARA-LIX DA** is added either immediately before or together with the first chrome addition.

Amount : 0.5-1.5% **PARA-LIX DA** calculated on the pelt weight.

#### **In retannages & preliminary fat liquoring process**

**PARA-LIX DA** may be used in the first washing bath. Normally however, it is added together with the retanning agent for fat liquor in any preliminary fat liquoring process.

Amount : 0.5-1.0% **PARA-LIX DA** calculated on the shaved weight.

#### **In wetting back crust leather**

**PARA-LIX DA** accelerates the uniform wetting back of the leather and at the same time has a levelling effect on the subsequent dyeing.

Amount : 1-2% **PARA-LIX DA** calculated on the dry weight.

#### **In the main fat liquoring process**

**PARA-LIX DA** is used for the purpose of stabilising unstable fat liquor mixtures. Its use also produces a considerable improvement in the penetration and uniform distribution of the fat liquor.

Amount : 1.5% **PARA-LIX DA** calculated on the amount of fat liquor.

#### **In Semi Chrome tannage**

**PARA-LIX DA** is best utilised in semichrome tannage to disperse the natural fats applied during the vegetable tannage and thus helps in preventing the chrome soap formation. It also helps in producing fine grain and minimise the drawn grain effect.

Amount : 1.5% **PARA-LIX DA** calculated on the dry weight of E.I. Leathers.

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## PARATAN PR

Levelling Agent with slight tanning properties; dispersing agent for vegetable Tannins.

Similar to VERNATAN PR ( CLARIENT )

### SPECIFICATIONS :

Appearance	: Very light, yellowish-brown powder, readily soluble in water.
Chemical Constitution	: Sodium Salt of an aromatic sulphonic acid, anionic.
Active Ingredients	: 96%
pH of 10% soln.	: 7.0 ~ 8.0

### ADVANTAGES :

**PARATAN PR** is versatile in application :

- > In dyeing as levelling & lightening agent for anionic dyes, especially suitable for medium / pastel shades.
- > For the fixation of cationic dyes and fatliquors.
- > As dispersing agent for vegetable tannins and in retannages with anionic and nonionic resin tannins. Promotes the penetration and distribution of the tannin while simultaneously improving the dyeability and penetration.

### APPLICATION :

#### **Dyeing pale and pastel shades with anionic dyes**

**PARATAN PR** is used here as a levelling and brightening agent. It is added at the beginning of the dyeing about 10 minutes before the dye is added, either dissolved in a 1:5 ratio or in powder form. It can also be added directly together with the dye, in which case the dyeing is lightened somewhat less.

<b>Amounts :</b>	Medium to Pale Shades	0.2 ~ 1%	On the shaved weight
	Pastel Shades	1 ~ 3 %	On the shaved weight

#### **Fixation of Cationic Dyes and Fat Liquors**

Additional fixation of dyeings or toppings with cationic dyes and cationic fatliquors can be obtained by an aftertreatment with **PARATAN PR**. It is added to the exhausted dyeing or fatliquoring bath.

**Amount :** 0.5-1.0% **PARATAN PR** calculated on the shaved weight.

#### **Vegetable Tanning**

**PARATAN PR** disperses the vegetable tannin , largely prevents the formation of undesired sludge and speeds up the through – tanning process.

**Amounts in drum tanning :** 2-10% **PARATAN PR** based on the amount of Vegetable tannin.

#### **In Retannages**

**PARATAN PR** is added as a dispersing and levelling agent to retannages with vegetable tannins as well as anionic and nonionic resin tannins; the penetration of the retanning agents thereby becomes more uniform and the grain remains more elastic.

**Amounts :** 5-30% **PARATAN PR** based on the retanning agent.

### HANDLING PRECAUTIONS :

The eyes and respiratory tracts should be protected against contact with the product as it has a strong irritating effect on the mucous membranes.

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## **PARA-TAMOL M**

**Levelling Agent with slight tanning properties; dispersing agent for vegetable Tannins.**

**Similar to TAMOL M ( BASF )**

### **SPECIFICATIONS :**

Appearance	: Very light, yellowish-brown powder, readily soluble in water.
Chemical Constitution	: Sodium Salt of an aromatic sulphonic acid, anionic.
Active Ingredients	: 96%
pH of 10% soln.	: 7.0 ~ 8.0

### **ADVANTAGES :**

**PARA-TAMOL M** is versatile in application :

- > In dyeing as levelling and lightening agent for anionic dyes, especially suitable for medium to pastel shades.
- > For the fixation of cationic dyes and fatliquors.
- > As dispersing agent for vegetable tannins and in retannages with anionic and nonionic resin tannins. Promotes the penetration and distribution of the tannin while simultaneously improving the dyeability and penetration.

### **APPLICATION :**

#### **Dyeing pale and pastel shades with anionic dyes**

**PARA-TAMOL M** is used here as a levelling and brightening agent. It is added at the beginning of the dyeing about 10 minutes before the dye is added, either dissolved in a 1:5 ratio or in powder form. It can also be added directly together with the dye, in which case the dyeing is lightened somewhat less.

<b>Amounts :</b>	Medium to Pale Shades	0.2 ~ 1%	On the shaved weight
	Pastel Shades	1 ~ 3 %	On the shaved weight

#### **Fixation of Cationic Dyes and Fat Liquors**

Additional fixation of dyeings or topplings with cationic dyes and cationic fatliquors can be obtained by an aftertreatment with **PARA-TAMOL M**. It is added to the exhausted dyeing or fatliquoring bath.

Amount : 0.5-1.0% **PARA-TAMOL M** calculated on the shaved weight.

#### **Vegetable Tanning**

**PARA-TAMOL M** disperses the vegetable tannin, largely prevents the formation of undesired sludge and speeds up the through – tanning process.

**Amounts in drum tanning :** 2-10% **PARA-TAMOL M** based on the amount of Vegetable tannin.

#### **In Retannages**

**PARA-TAMOL M** is added as a dispersing and levelling agent to retannages with vegetable tannins as well as anionic and nonionic resin tannins; the penetration of the retanning agents thereby becomes more uniform and the grain remains more elastic.

**Amounts :** 5-30% **PARA-TAMOL M** based on the retanning agent.

### **STORAGE STABILITY :**

Virtually unlimited, if frozen. Ensure it is stored dry and opened containers are tightly closed.

Manufacturers of Leather Dyes & Tanning Chemicals

C-24, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400031 India • Tel : +91-22- 4960 6262 / 4015 5162  
Email : parth@parth-international.co.in • Website: [www.parth-international.co.in](http://www.parth-international.co.in)



## **PARAFILL B POWDER**

**A specialty protein filler**

**Similar to UNIFILL B (UNION CO.)**

A specialty protein filler developed for use on white leathers. “Corrected grains” will show improved buffing properties in addition to the value of increased “filling” of “flank” and belly areas.

### **SPECIFICATIONS :**

CONCENTRATION : 96 ~ 98 %  
pH of 10% soln. : 6.0 ~ 7.0

### **APPLICATION :**

Normal application 3-5% based on the chrome-shaved weight added directly to tanning drum for 10 minutes prior to fatliquor.

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## PARAFIX LD

**PARAFIX LD** is a fixative specially developed for leather processing. It is a white free flowing powder based on inorganic compound, easily soluble in water at room temperature.

### ADVANTAGES :

- > More economical than other conventional “fixing agents.”
- > Suitable as “fixing agent” for all classes of dyes (acid, direct, metal complex & combination) at same percentage as Formic Acid.
- > Functions efficiently irrespective of the type of tannage or raw material.
- > Compatible with other chemicals used in retanning, dyeing and fat liquoring.
- > Effective “fixing agent” in all post tanning operations.
- > Dye exhaustion characteristics are better compared to other “fixatives.”
- > Provides better uniformity of colour, penetration, fastness and physical properties compared to other fixatives.
- > **PARAFIX LD** has 100% active matter as against 85% in case of Formic Acid.

### APPLICATION :

- > Follow Conventional dyeing process.
- > Replace Formic Acid with “**PARAFIX LD**” in same proportion.
- > Make 10% solution in water and ensure complete dissolution of material.
- > Feed the solution in 2-3 equal instalments at an interval of 10 minutes each.

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## **PARAFIX FFDF**

### **Formaldehyde Free Dye-Fixing Agent.**

#### **SPECIFICATIONS :**

Appearance	: Very pale yellowish liquid.
Chemical Constitution	: Modified polyalkyleneamine.
pH of 10% soln.	: 5.0 ~ 7.0
Ionic Nature	: Cationic
Active Matter	: 30 ± 1%

#### **ADVANTAGES :**

**PARAFIX FFDF** has the following properties:

- > Contains no formaldehyde and is totally odour free & Eco Friendly.
- > Improves dye fastness particularly dry and wet rub fastness.
- > Can be used after dyeing, fatliquoring and fixing for better dye brilliance and more depth.
- > It does not affect the touch of the leather agents.
- > It increases the brilliancy and depth of the dye.
- > It improves the dry and wet rub fastness considerably. Ideal for suedes.

#### **APPLICATION :**

It can be mixed in all properties with water. After completion of dyeing process, 1%-2% **PARAFIX FFDF** can be used and run for 25 to 30 minutes for better fixation in fresh bath.

It can also be used between dyestuff addition to build up darker shade.

#### **STORAGE :**

Can be stored under normal tannery conditions and has a shelf life of one year.



## **PARAFIX TA**

### **Eco Friendly Fixing Agent**

#### **SPECIFICATIONS :**

Appearance	: Clear, pale yellow liquid.
Solubility	: Easily miscible in water in all proportions.
Odour	: Nil
pH of 10% soln.	: 1.5 ~ 2.0
Stability	: Excellent
Compatibility	: Good

#### **ADVANTAGES :**

**PARAFIX TA** has the following properties:

- > **PARAFIX TA** is being offered as a safe alternate to various acids used in diverse industries.
- > **PARAFIX TA** is a perfect replacement for traditional organic and inorganic acids.
- > **PARAFIX TA** can be used in the dyeing of acid dyes on protein substrates, wherein it gives good effective protonation to result in an excellent fixation of dyes, be it leather or textiles substrates.
- > **PARAFIX TA** can be used in place of FORMIC ACID and/or acetic acid for pH adjustment, with no side effect or visible toxicity, emanating no toxic fumes or any foul odours.
- > **PARAFIX TA** usages give a very low COD/BOD load on the effluent systems, which is quite desirable in modern day industry requirements, along with it being biodegradable and APEO free.

#### **APPLICATION :**

- > **PARAFIX TA** is a versatile proton donor and can work as a good pH regulating agent.
- > **PARAFIX TA** is suitable in the drumming of leather and works at ambient temperatures with good effective results all along. **PARAFIX TA** helps in the fixation of acid dyes very smoothly and saves the operators from the hazards of FORMIC acid usages.
- > **PARAFIX TA** is a perfect acid substitute for pH control in enzymatic treatment in textile processing
- > **PARAFIX TA** is completely soluble in water and gives low Ph spontaneously, like any other acid.
- > **PARAFIX TA** can be mixed with surfactants and is found to be quite stable.

#### **STORAGE :**

Can be stored under normal tannery conditions and has a shelf life of one year.

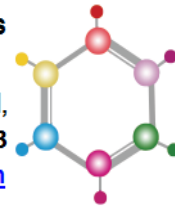
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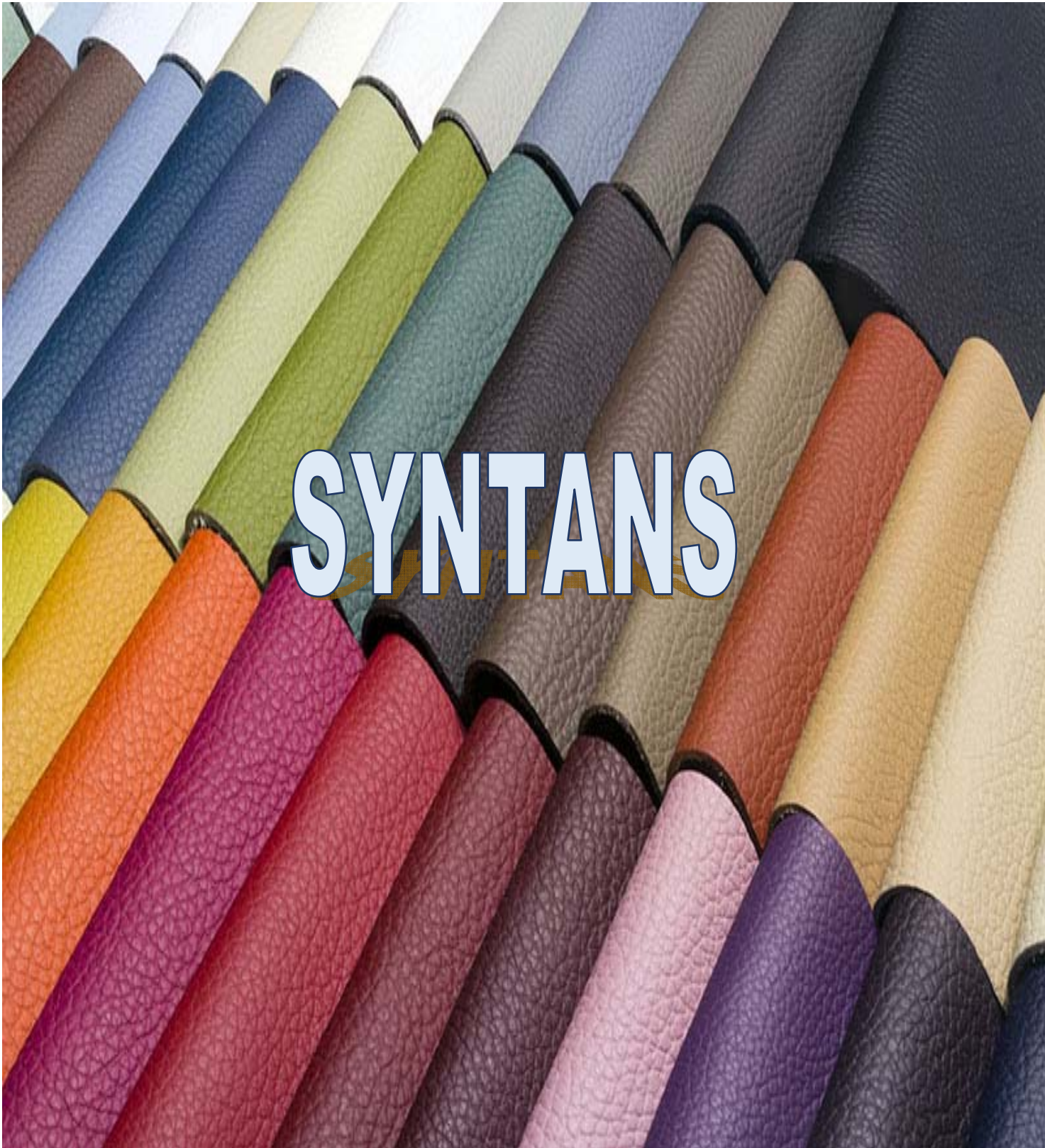
Manufacturers of Leather Dyes & Tanning Chemicals

C-24, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400031 India • Tel : +91-22-2415 6162 / 2415 613

Email : [parth@parth-international.co.in](mailto:parth@parth-international.co.in) • Website: [www.parth-international.co.in](http://www.parth-international.co.in)



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## **PARATAN P**

### **Pretanning Syntan - Phenol Condensate Product Similar to Basytan FB-P ( BASF )**

**PARATAN P** is a Pre Tanning agent of medium astringency. It can be used for both Self Tannage and combination tannage in conjunction with Vegetable Tannins. It is also suitable for retanning chrome leather and for getting very Pale Coloured Light Fast Tannage.

#### **SPECIFICATION :**

Basis	:	Phenol Condensation Product
Appearance	:	Pale, Yellowish Powder
Solid Content	:	96 ± 98%
pH ( In 10% aqueous soln	:	3.5 ~ 4.5
Tans	:	70 ~ 72%

#### **ADVANTAGES :**

- > **PARATAN P** is a Pale, Yellowish Powder, readily soluble in water.
- > It is a Pretanning Agent for producing Vegetable Tanned Leathers.
- > It accelerates penetration, exert a bleach effect and produces a Mellow handle.
- > It is also suitable for Retanning Chrome Tanned Leathers.
- > It is a good Light Fast Replacement Syntan with high filling properties.

#### **APPLICATIONS :**

- > **PARATAN P** is used as a main Retanning Agent for dry milled leathers to achieve uniform break throughout the area of skin or hide.
- > It is ideal for production of crust leathers.
- > Imparts good, uniform dyeing on uppers & sudes when **PARATAN P** is used in retanning.
- > Good nap can be obtained in suedes. Also buffing properties for correct grain side leather is good.
- > Ensures good dispersion of vegetable and resin tanning materials in cow, buffalo uppers. Also uniform penetration of all the products are achieved.
- > **PARATAN P** is particularly recommended for full and tight retannages on goat, sheep and cow softy uppers. Also for the retanning of chrome upper leathers where fullness without looseness is required.

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## **PARATAN CS** **Chrome Syntan**

**PARATAN CS** is a combination of Basic Chromium Salts and a Light Fast Tanning Agent. It can be used as selftanning agent or as pretanning and retanning agent in Vegetable and Chrome Tannage.

### **SPECIFICATION :**

Basis	:	Chrome Complexed with Phenol Sulphonic Acid
Appearance	:	Light Green Powder
Solid Content	:	95 ± 1.0%
pH ( In 10% aqueous solu	:	3.5 ~ 4.5
Solubility	:	Excellent
Cr <sub>2</sub> O <sub>3</sub>	:	11 ~ 13%

### **ADVANTAGES :**

- > **PARATAN CS** can be added in the powder form & with low float.
- > This solution is less sensitive to any sudden rise of the pH.
- > It ensures level dyeing without lightening them noticeably.
- > It is fixed to the leather & reacts with the collagen without producing any astringency as well as level dyeing.
- > It gives soft leather with fine, smooth grain and good fullness without alteration of the typical chrome character.
- > **PARATAN CS** is recommended for neutralizing and retanning of chrome leathers. It also has complex forming and buffering properties.

### **APPLICATIONS :**

Rechroming of wet - blue (% based on shaved weight )

For the Tannage of Low Chrome Wet Blue to improve uptake - **PARATAN CS** 1.0 ~ 2.0%

In Rechroming Upper, Garment - **PARATAN CS** - 4.0 ~ 6.0 %

In Rechroming Upholstery Leather - **PARATAN CS** - 3.0 ~ 4.0 %

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## **PARATAN PAK**

### **Neutralising Agent for all types of Leathers**

### **Similar to Tanigan PAK**

**PARATAN PAK** is a Neutral Synthetic Agent recommended for Neutralization. It also gives good results in retanning and dyeing of chrome leathers and other mineral tanned leathers.

Neutralizing with **PARATAN PAK** does not affect the grain of the chrome leather. Excellent buffering action hence gives uniform neutralization through the Cross Section.

#### **SPECIFICATION :**

Basis	:	Naphthalene Sulphonic Acid Condensate
Appearance	:	Light Brown free flowing powder
Solid Content	:	95 ± 1.0%
pH ( In 10% aqueous solu	:	7.0 - 7.5
Solubility	:	Completely soluble in water
Light Fastness	:	Excellent

#### **ADVANTAGES :**

- > **PARATAN PAK** consists of a salt admixture, which hardly yields any hydroxyl ions but reacts almost neutral in aqueous solutions.
- > It contains strongly complex - active acid radicals, which displace & buffer the sulphuric acid bound in the collagen - chromium complexes.
- > Vegetable & Synthetic Tannins have a mild & uniform effect, imparts levelled dyeing.
- > Recommended to be used together with other commonly used neutralising agents.
- > Does not over neutralise the leather when used even in more quantity.
- > Does not give any color reaction with iron salts.

#### **APPLICATIONS :**

In Neutralisation :           (% on Shaved Wt.)  
2.0 - 2.5 % **PARATAN PAK** Run 10'  
Add other Inorganic Neutralizing Salts

In Retanning :               (% on Shaved Wt.)  
1.0 - 2.0 % of **PARATAN PAK**  
Along with Replacement Syntan or Vegetable Extract

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## **PARATAN RS** **Replacement Syntan**

**PARATAN RS** is a Synthetic Replacement Tanning Agent. It is extremely useful where tight grain properties with improved filling in flanks is required.

### **SPECIFICATION :**

Basis	:	Aromatic Oxy Sulphone
Appearance	:	Light Brown free flowing powder
Solid Content	:	95 ± 1.0%
pH ( In 10% aqueous solu	:	3.0 ~ 4.0
Solubility	:	Excellent
Light Fastness	:	Excellent

### **ADVANTAGES :**

- > **PARATAN RS** gives fine and smooth grain when applied in retanning.
- > It also gives excellent fullness & buff ability to the leather.
- > It gives good whiteness to the leather with excellent lightfastness.  
**PARATAN RS** has good dispersing property, which results in better uptake and good exhaustion.
- > It can be used alone or in combination with Vegetable & Synthetic Tanning agents in retanning.
- > It can be used as a Replacement Tanning Agent in all stages of tannage for the production of Heavy, Medium & Light Leather.
- > **PARATAN RS** is stable to Neutral Salts, Acids & Bases in usual concentrations in Tannery.
- > It is compatible with Synthetic and vegetable Tanning Agents and Dyes.

### **APPLICATIONS :**

**PARATAN RS** can be used in all stages for the production of any articles (Uppers, Garment, Lining etc.)

- |                   |   |  |
|-------------------|---|--|
| 1) Upper          | : | 3.0 ~ 8.0 % of <b>PARATAN RS</b> on shaved wt. |
| 2) Garment        | : | 2.0 ~ 4.0 % of <b>PARATAN RS</b> on shaved wt. |
| 3) Light Leathers | : | 2.0 ~ 6.0 % of <b>PARATAN RS</b> on shaved wt. |
| 4) Sheepskins     | : | 3.0 ~ 7.0 % of <b>PARATAN RS</b> on shaved wt. |

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## **PARATAN OS**

### **Replacement Syntan**

### **Similar to Tenigan OS ( Lanxess )**

**PARATAN OS** is a sulphone based replacement syntan used in Self Tannage and Combination Tannage as well as also used in Retanning Chrome Leather.

#### **SPECIFICATION :**

Basis	:	Aromatic Oxy Sulphone
Appearance	:	Light Brown free flowing powder
Solid Content	:	95 ± 1.0%
pH ( In 10% aqueous solu	:	3.0 ~ 4.0
Solubility	:	Excellent
Light Fastness	:	Excellent

#### **ADVANTAGES :**

- > **PARATAN OS** gives fine & smooth grain when applied in retanning.
- > It gives excellent fullness & buff ability to the leather.
- > **PARATAN OS** is stable to Neutral Salts, Acids & Bases in usual concentrations in tannery.
- > It is compatible with synthetic tanning agents, vegetable tanning agents and dyes.
- > **PARATAN OS** possesses good dispersing property, which results in better uptake and good exhaustion.
- > It gives good whiteness to the leather with excellent lightfastness.  
It can be used alone or in combination with vegetable and synthetic tanning agents in
- > retanning.
- > It can be used as a replacement tanning agent in all stages of tannage for the production of heavy, Medium & Light Leathers.

#### **APPLICATIONS :**

**PARATAN OS** can be used in all stages for the production of any articles (Uppers, Garment, Lining etc.)

- |                   |   |  |
|-------------------|---|--|
| 1) Upper          | : | 3.0 ~ 8.0 % of <b>PARATAN OS</b> on shaved wt. |
| 2) Garment        | : | 2.0 ~ 4.0 % of <b>PARATAN OS</b> on shaved wt. |
| 3) Light Leathers | : | 2.0 ~ 6.0 % of <b>PARATAN OS</b> on shaved wt. |
| 4) Sheepskins     | : | 3.0 ~ 7.0 % of <b>PARATAN OS</b> on shaved wt. |

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## PARATAN PRS

### Phenolic Replacement Tanning Agent for Leather

**PARATAN PRS** is a Phenolic Replacement Tanning Agent used in Self Tannage, Combination Tannage and also used in Retanning Chrome Leather.

#### SPECIFICATION :

Basis	:	Phenol Naphthalene Condensate
Appearance	:	Light Brown free flowing powder
Solid Content	:	95 ± 1.0%
pH ( In 10% aqueous solu	:	3.0 ~ 4.0
Solubility	:	Excellent
Light Fastness	:	Excellent

#### ADVANTAGES :

- > **PARATAN PRS** is stable to Neutral Salts, Acids & Bases in usual concentrations in Tannery.
- > It is compatible with synthetic tanning, vegetable tanning agents and dyes. It is not sensitive to salts.
- > It gives Excellent Fullness & Buff ability to the leather.  
It can be used alone or in combination with vegetable & synthetic tanning agents in
- > retanning.
- > It can be used as a Replacement Tanning Agent in all stages of tannage for the production of Heavy, Medium & Light Leather.  
**PARATAN PRS** has good levelling effect on the dyeing & is particularly suitable for paler
- > shades.
- > It gives good fullness, softness & uniform dyeing with medium lightfastness to the leather.

#### APPLICATIONS :

**PARATAN PRS** can be used in all stages for the production of any articles (Uppers, Garment, lining etc.)

1) Upper	:	3.0 ~ 8.0 % of <b>PARATAN PRS</b> on shaved wt.
2) Garment	:	2.0 ~ 4.0 % of <b>PARATAN PRS</b> on shaved wt.
3) Light Leathers	:	2.0 ~ 6.0 % of <b>PARATAN PRS</b> on shaved wt.
4) Sheepskins	:	3.0 ~ 7.0 % of <b>PARATAN PRS</b> on shaved wt.

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## **PARATAN AN**

### **Synthetic , Amphoteric , Replacement Tanning Agent Similar to Basyntan AN ( BASF )**

**PARATAN AN** is Amphoteric Replacement Tanning Agent and is mainly used for retanning chrome and semichrome leather that is to be dyed in full brilliant shades. ( Rechroming Syntan )

#### **SPECIFICATION :**

Basis	:	Blend of Phenolic and Amino Condensation products.
Appearance	:	White Powder
Solid Content	:	95% - Minimum
pH ( In 10% aqueous solu	:	3.0 ~ 4.0
Solubility	:	Excellent
Light Fastness	:	Excellent

#### **ADVANTAGES :**

- > **PARATAN AN** improves dye ability of leather to clear & brilliant shade.
- > Being Amphoteric in nature, it can be used at both lower & higher pH.
- > It imparts good fullness & good softness to the leather.
- > It gives full & brilliant shades to the leather when applied alone.
- > It imparts food softness & medium fullness without giving extra weight to the leather.
- > **PARATAN AN** is stable to Neutral Salts, Acids & Bases in usual concentrations in tannery.
- > It is compatible with synthetic and vegetable tanning agents and dyes.
- > It is compatible with chrome tanning agents & combination tanning agents containing chrome.

#### **APPLICATIONS :**

**PARATAN AN** can be used during Rechroming, Neutralization and Retanning. However, the most suitable stage is during neutralization.

- 1) In Rechroming : 2 - 3 % **PARATAN AN**
- 2) In Neutralization : 2 - 3 % **PARATAN AN**
- 3) In Retanning : 2 - 3 % **PARATAN AN**

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## **PARATAN CW**

### **Sulfone & Cresol based White Syntan with High Tanning Power**

**PARATAN CW** is a versatile synthetic replacement syntan for retannage of chrome leather and for vegetable tannage.

#### **SPECIFICATION :**

Basis	:	Condensate of Dihydroxi - Diphenyl Sulfone & Cresol.
Appearance	:	Cream Coloured Powder
Solid Content	:	95 % Minimum
pH ( In 10% aqueous solu	:	3.5 ~ 4.5
Solubility	:	Readily soluble in warm and cold water
Light Fastness	:	Excellent

#### **ADVANTAGES :**

- > **PARATAN CW** is stable to Neutral salts, Acids & Bases in usual concentrations in tannery.
- > It is compatible with synthetic and vegetable tanning agents and dyes.
- > Improves dye brilliancy and depth.
- > It gives high level of heat and light fastness.
- > It has good dispersing property which results in better uptake and good exhaustion.
- > Imparts full, fine and smooth grain when applied in retannin.
- > Suitable for the production white leathers including wet white tanning.
- > Can be used for bleaching chrome and vegetable tanned leather.

#### **APPLICATIONS :**

**PARATAN CW** can be used in all stages for production of any articles ( Uppers, Garment, lining etc. )

- |                        |   |  |
|------------------------|---|--|
| 1) Chrome Free Tanning | : | 3.0 ~ 5.0 % of <b>PARATAN CW</b> based on pelt wt.   |
| 2) White Retanning     | : | 4.0 ~ 6.0 % of <b>PARATAN CW</b> based on shaved wt. |
| 3) Other Retanning     | : | 2.0 ~ 4.0 % of <b>PARATAN CW</b> based on shaved wt. |

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## **PARATAN ARE**

### **Acrylic Polymer Syntan**

### **Similar to Relugan RE ( BASF )**

#### **SPECIFICATION :**

Basis	:	Acrylic Polymer
Appearance	:	Yellowish Transparent viscous liquid
Solid Content	:	35 ± 1.0%
Ph (In 10% aqueous soln.	:	6.5 ± 0.5
Solubility	:	Good
Light Fastness	:	Excellent
Stability	:	Stable to Neutral salts, Acids & Bases in usual concentrations in tannery. Compatible with synthetic, vegetable tanning agents & dyes.

#### **ADVANTAGES :**

- > It increases finishing anchorage.
- > It gives fine & flat grain along with good tightness.
- > It gives excellent selective filling along with plumping effect.
- > It is specially suitable for leathers with loose structure for upper leather.
  
- > It is light fast in nature, so can be used in any kind of white, pastel and dark colored leather.

#### **APPLICATIONS :**

##### **In Retanning :**

It can be applied after neutralization.

It can be applied before addition of other retanning agents.

It can be applied before or after fatliquor.

Softy Upper / Nappa Leath	:	<b>PARATAN ARE</b> - 3.0 ~ 5.0% based on shaved wt.
Garment Leather	:	<b>PARATAN ARE</b> - 2.0 ~ 3.0% based on shaved wt.
Upholstery Leather	:	<b>PARATAN ARE</b> - 2.0 ~ 4.0% based on shaved wt.
Sheep Upper Leather	:	<b>PARATAN ARE</b> - 3.0 ~ 5.0% based on shaved wt.
Goat Upper Leather	:	<b>PARATAN ARE</b> - 2.0 ~ 3.0% based on shaved wt.

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## **PARATAN 5400**

**Low pH Acrylic Syntan for excellent fullness with tight grain**

### **SPECIFICATION :**

Basis	:	Polymeric Syntan
Appearance	:	Off White free flowing viscous liquid
Solid Content	:	35 ± 1.0%
pH ( In 10% aqueous solut	:	3.0 ~ 4.0
Solubility	:	Good
Light Fastness	:	Excellent
Stability	:	Stable to Neutral salts, Acids & Bases in usual concentrations in tannery. Compatible with synthetic, vegetable tanning agents & dyes.

### **ADVANTAGES :**

- > It gives good grain tightness with soft & smooth feel of the leather.
- > It is not very much pH sensitive.
- > It gives good plumping effect along with bleaching properties.
- > It helps in improving tensile and tearing strength of split leather.
- > Although bleaching, but lightfast in nature. Useful for light & pastel shades.

### **APPLICATIONS :**

Re - Chroming	:	<b>PARATAN 5400</b> - 2.0 ~ 4.0 %
In Main Retanning	:	<b>PARATAN 5400</b> - 1.0 ~ 2.0 % after neutralization & before retanning
Split Leather	:	<b>PARATAN 5400</b> - 2.0 ~ 2.5% in Rechroming bath

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## **PARATAN FMRF**

### **Fine Molecule Acrylic Syntan**

#### **SPECIFICATION :**

Basis	:	Maleic Acrylic Copolymer
Appearance	:	Clear viscous liquid
Solid Content	:	35 ± 1.0%
pH (In 10% aqueous soln.)	:	7.0 ~ 8.0
Solubility	:	Good
Light Fastness	:	Excellent
Stability	:	Stable to Neutral salts, Acids & Bases in usual concentrations in tannery. Compatible with synthetic, vegetable tanning agents & dyes.

#### **ADVANTAGES :**

- > It improves fullness and thickness due to its penetrating nature.
- > It gives good inner softness and tight grain, due to its fineness of molecules.
- > It is not very much pH sensitive.
- > It gives good plumping effect along with bleaching properties.

#### **APPLICATIONS :**

Re - Chroming	:	2.0 ~ 4.0% <b>PARATAN FMRF</b>
In Main Retanning	:	1.0 ~ 2.0% after neutralization and before retanning
Split Leather	:	2.0 ~ 2.5% <b>PARATAN FMRF</b> in rechroming bath

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## PARATAN LV

### Fine Molecule Maleic Copolymer Syntan

#### SPECIFICATION :

Basis	:	Maleic Acrylic Copolymer
Appearance	:	Clear Viscous Liquid
Solid Content	:	29 ± 1.0%
pH (In 10% aqueous soln)	:	7.0 ~ 8.0
Solubility	:	Good
Light Fastness	:	Excellent
Stability	:	Stable to Neutral salts, Acids & Bases in usual concentrations in tannery. Compatible with synthetic, vegetable tanning agents & dyes.

#### ADVANTAGES :

- > It improves fullness and thickness due to its penetrating nature.
- > It helps in achieving a unique combination of "**Tight Grain with Mellow Handle**"
- > It is suitable for Upholstery Leather, as it maintains inner softness even after wet toggling.
- > It gives good inner softness and tight grain, due to its fineness of molecules.
- > It has an excellent distribution property that protects leather from drawn grain.
- > Is lightfast in nature, so can be used in any kind of White, Pastel and Dark colored Leather.

#### APPLICATIONS :

Upholstery	:	<b>PARATAN LV</b> - 5.0 ~ 6.0% after Neutralization & before Retanning
Shoe Upper	:	<b>PARATAN LV</b> - 3.0 ~ 5.0% after Neutralization & before Retanning
	:	<b>PARATAN LV</b> - 1.0 ~ 2.0% after Fat Liquoring and before Fixation
Garment	:	<b>PARATAN LV</b> - 3.0 ~ 5.0% after Neutralization and before Retanning

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## PARATAN AM 30 Maleic Copolymer Syntan

### SPECIFICATION :

Basis	:	Maleic Acrylic Copolymer
Appearance	:	Clear Viscous Liquid
Solid Content	:	30 ± 1.0%
pH (In 10% aqueous soln)	:	7.0 ~ 8.0
Solubility	:	Good
Light Fastness	:	Excellent
Stability	:	Stable to Neutral salts, Acids & Bases in usual concentrations in tannery. Compatible with synthetic, vegetable tanning agents & dyes.

### ADVANTAGES :

- > It has an excellent distribution property that protects leather from drawn grain.
- > Due to its polymeric nature, It helps in achieving a unique combination of "**Tight Grain with Mellow Handle**"
- > It is suitable for Upholstery Leather, as it maintains inner softness & body even after wet toggling.
- > It has a significant application in making of Shoe Uppers with good inner softness & tight grain.
- > Is lightfast in nature, so can be used in any kind of White, pastel and dark colored Leather.

### APPLICATIONS :

Upholstery	:	<b>PARATAN AM 30</b> ~ 5.0 - 6.0% after Neutralization & before Retanning
Shoe Upper	:	<b>PARATAN AM 30</b> - 3.0 ~ 5.0% after Neutralization & before Retanning
	:	<b>PARATAN AM 30</b> - 1.0 ~ 2.0% after Fat Liquoring and before Fixation
Garment	:	<b>PARATAN AM 30</b> - 3.0 ~ 5.0% after Neutralization & before Retanning

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## **PARATAN MR**

### **Special Resin - Tanning Agent based on Melamine**

#### **SPECIFICATION :**

Basis	:	Blend of Sulphonated Amino Resin
Appearance	:	White Powder
Solid Content	:	95% Minimum
pH (In 10% aqueous soln)	:	7.5 ~ 8.5
Solubility	:	Soluble in water with slight sediments
Light Fastness	:	Excellent
Stability	:	Stable to Neutral salts, Acids & Bases in usual concentrations in tannery. Compatible with synthetic, vegetable tanning agents & dyes.

#### **ADVANTAGES :**

- > It is a soft resin in powder form recommended to obtain mellowness and even round filling during retanning process of chrome - tanned leather.  
Gives good penetration effect & gives an excellent fullness especially in the loose part of
- > the skin.
- > Has got very good buffability and does not bleach the colour. So it is very much suitable for the production of Suede and Nubuck leather.  
Gives uniform filling with body to the leathers, also produces soft, tight grained, rubbery
- > leather.

#### **APPLICATIONS :**

**PARATAN MR** can be used in all stages for production of any articles (Uppers, Garment, lining etc.)

- |                   |   |  |
|-------------------|---|--|
| 1) Upper          | : | 3.0 ~ 8.0 % of <b>PARATAN MR</b> on shaved wt. |
| 2) Garment        | : | 2.0 ~ 4.0 % of <b>PARATAN MR</b> on shaved wt. |
| 3) Light Leathers | : | 2.0 ~ 6.0 % of <b>PARATAN MR</b> on shaved wt. |

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## **PARATAN BM**

### **Resin Syntan based on Melamine & Aliphatic Nitrogen Compounds**

#### **SPECIFICATION :**

Basis	:	Brown Melamine Formaldehyde Condensate
Appearance	:	Light Brown Coloured Powder
Solid Content	:	95% Minimum
pH (In 10% aqueous soln)	:	7.5 ~ 8.5
Solubility	:	Soluble in water with slight sediments
Light Fastness	:	Excellent
Stability	:	Stable to Neutral salts, Acids & Bases in usual concentrations in tannery. Compatible with synthetic, vegetable tanning agents & dyes.

#### **ADVANTAGES :**

- > Imparts soft mellow handle with tight grain.
- > It is not astringent and helps toggle smooth flat grain.
- > It does not bleach dyes & hence can be used for dark shades.
- > Compatible with other retanning agents used during main retanning of Leather.
- > It gives good dispersion and penetration which helps in uniform levelling of Dyes & Syntans.

#### **APPLICATIONS :**

- 1) In Shoe Upper : 4.0 ~ 8.0% **PARATAN BM** on shaved Wt.
- 2) In Nubuck Leather : 6.0 ~ 8.0% **PARATAN BM** on shaved Wt.
- 3) Upholstery : 2.0 ~ 4.0% **PARATAN BM** on shaved Wt.

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## **PARATAN BM-FF**

### **Melamine Based Resin Syntan Condensed with Polyaldehyde**

#### **SPECIFICATION :**

Basis	: Sulfonated Amino Resin Reaction product with Polyaldehyde
Appearance	: Light Brown coloured powder
Moisture Content	: 6.0% Max.
pH (In 10% aqueous so	: 7.5 ~ 8.5
Solubility	: Miscible with water in all proportions
Light Fastness	: Excellent

#### **ADVANTAGES :**

- > Contrary to Conventional Melamine Formaldehyde Resin, It is **NO FORMALDEHYDE** either in the product or in the leather treated with it.
- > Being Condensed with Polyaldehyde, It imparts good fullness with enhanced body into leather maintaining the inner softness of the leather.  
Has got good penetration effect & gives an excellent fullness especially in the loose part of skin.
- > Has got very good buffability & does not bleach the colour. So, it is very much suitable for the production of Suede and nubuck leather.
- > Gives uniform filling with body to the leathers.

#### **APPLICATIONS :**

**PARATAN BM-FF** can be used in all stages for the production of any articles ( e.g. Uppers, Garment, Lining etc., )

- |                   |   |   |
|-------------------|---|---|
| 1) Upper          | : | 3.0 ~ 8.0% <b>PARATAN BM-FF</b> on shaved wt. |
| 2) Garment        | : | 2.0 ~ 4.0% <b>PARATAN BM-FF</b> on shaved wt. |
| 3) Light Leathers | : | 2.0 ~ 6.0% <b>PARATAN BM-FF</b> on shaved wt. |

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## PARARAN FB 6

### Special Resin - Tanning Agent based on Melamine

#### SPECIFICATION :

Basis	:	Blend of sulphonated amino resin
Appearance	:	Light Beige colour powder
Solid Content	:	95% Minimum
pH ( In 10% aqueous solution)	:	8.5 ~ 9.5
Solubility	:	Soluble in water with slight sediments
Light Fastness	:	Excellent
Stability	:	Stable to Neutral salts, Acids & Bases in usual concentrations in tannery. Compatible with synthetic, vegetable tanning agents & dyes.

#### ADVANTAGES :

- > **PARATAN FB 6** is a soft resin in powder form recommended to obtain mellowness and even round filling during retanning process of chrome - tanned leather.  
It gives good penetration effect and gives an excellent fullness especially in the loose part of skin.
- > Has got very good buffability and does not bleach the colour so it is very much suitable for production of Suede and Nubuck Leather.  
Gives uniform filling with body to the leathers, also produces soft, tight grained, rubbery leather.

#### APPLICATIONS :

**PARATAN FB 6** can be used in all stages for the production of any articles ( e.g. Uppers, Garment, Lining etc., )

- |                   |   |  |
|-------------------|---|--|
| 1) Upper          | : | 3.0 ~ 8.0% <b>PARATAN FB 6</b> on shaved wt. |
| 2) Garment        | : | 2.0 ~ 4.0% <b>PARATAN FB 6</b> on shaved wt. |
| 3) Light Leathers | : | 2.0 ~ 6.0% <b>PARATAN FB 6</b> on shaved wt. |

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## **PARATAN ME**

### **Aqueous Solution of Melamine Resin**

#### **SPECIFICATION :**

Basis	:	Melamine - Formaldehyde Condensate Resin
Appearance	:	Colourless Cloudy Liquid
Solid Content	:	50% $\pm$ 2.0%
pH (In 10% aqueous soln)	:	6.5 ~ 7.0
Light Fastness	:	Excellent
Stability	:	Stability to Acids, Alkalis & Salts is Good but not stable below pH 4.0
Storage Stability	:	6 to 9 months if stored at 30 - 35 Deg C or below
Compatibility	:	Good with anionic and non - anionic products. Not Compatible with vegetable tannins as precipitation may occur.

#### **ADVANTAGES :**

- > **PARATAN ME** is light fast and gives level shades. Its ideally suitable for the retannage of aniline dyed and white leathers.
- > It is eminently suitable for the retannage of chrome upper upholstery, suedes and clothing leathers.
- > It levels out structural irregularities within the skin.
- > It produces soft, full and tight grain leather.
- > It imparts a short, even nap to suede.
- > It increases intensity and depth of dyed shades.

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## **PARATAN KE**

### **Aqueous Solution of Melamine Resin**

#### **SPECIFICATION :**

Basis	:	Melamine - Formaldehyde Condensate Resin
Appearance	:	Clear Aqueous Liquid
Solid Content	:	55% ± 2.0%
Ph (In 10% aqueous soln)	:	2.5 ~ 3.0
Light Fastness	:	Excellent
Stability	:	Stability to Acids, Alkalis & Salts is Good
Storage Stability	:	Atleast one year, Freezes at approximately 15 <sup>0</sup> C but becomes fully effective again on thawing.
Compatibility	:	Good with anionic, non - anionic and cationic products.

#### **ADVANTAGES :**

- > **PARATAN KE** is lightfast & suitable for aniline leather as well as white or pastel - coloured leather.
- > It produces a Fine, Tight and Elastic Grain. The fine, smooth appearance of the grain is unimpaired by subsequent retannage with a strong filling effect.
- > **PARATAN KE** levels out structural irregularities within the skin.
- > It imparts a short, even nap to suede.
- > **PARATAN KE** increases intensity and depth of the dyed shades.

#### **APPLICATIONS :**

- > The action or fixation of **PARATAN KE** is dependent on the pH.  
The optimum pH range for the application of this product is about 3.5 ~ 4.5 i.e slightly
- > acidic pH values below 3.5 can cause bonding at the surface only and hardening of the leather.
- > pH values above 5.5 generally results in inadequate bonding with the fibre.
- > It is therefore advisable to apply **PARATAN KE** before neutralizing.  
We recommend rinsing leather beforehand in order to ensure more even uptake of the
- > product.  
In Chrome retannages, **PARATAN KE** may also be applied together with the chrome
- > tannin.
- > It is important to ensure, however, that the pH of the liquor is above 3.5.

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## **PARATAN ALF** **Aluminium Tri - Formate**

### **SPECIFICATION :**

Basis	:	Aluminium Tri - Formate
Appearance	:	White to Cream Coloured Powder
Solid Content	:	95 ± 1.0%
pH (In 10% aqueous soln)	:	3.5 ~ 4.5
Solubility	:	Readily Soluble with Slight Sediments
Light Fastness	:	Good
Stability	:	Stable to Neutral Salts, Acids & Bases in usual concentrations in tannery. Compatible with Synthetic, Vegetable Tanning Agents & Dyes.

### **ADVANTAGES :**

- > It can be used for fixing water repellent and water proofing Fat Liquors.
  - > It gives good fixation to Anionic Dyes and increasing the dyeing brilliancy.
  - > It is suitable for White Leather because it gives good whiteness to the leather.
  - > Improves Buffing Property and gives short nap for Nubuck and Suede Leather.
- It has good Tanning Property so can be used along with chrome & Wet White Tanning Agents.

### **APPLICATIONS :**

- 1) Wet White Tanning : 3.0 ~ 6.0% **PARATAN ALF**, based on Pelt wt.
- 2) Chrome Tanning : 1.0 ~ 3.0% **PARATAN ALF**, before Chrome, based on Pelt wt.
- 3) Other Retanning : 2.0 ~ 4.0% **PARATAN ALF**, based on shaved wt.
- 4) Fixing Water Proof Leather : 2.0 ~ 3.0% **PARATAN ALF**, based on shaved wt.

**Liquid Aluminium Tri-Formate Syntan - PARATAN ALF Liquid is available with 38% Solid Content.**

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## **PARATAN SW**

### **Sulfone based White Syntan with high Tanning Power**

#### **SPECIFICATION :**

Basis	:	Condensate of Dihydroxi - Diphenyl - Sulfone
Appearance	:	White to cream coloured powder
Solid Content	:	95 % Minimum
pH (In 10% aqueous soln)	:	3.5 ~ 4.5
Solubility	:	Readily soluble in warm and cold water
Light Fastness	:	Excellent
Stability	:	Stable to Neutral Salts, Acids & Bases in usual concentrations in tannery. Compatible with Synthetic, Vegetable Tanning Agents & Dyes.

#### **ADVANTAGES :**

- > Improves Dye Brilliancy and Depth.
- > It gives high level of Heat and Light Fastness.
- > It gives Fine and Uniform Milling Effect, when used at low pH.
- > Imparts full, fine and Smooth Grain when applied in Retanning.
- > Suitable for the production White Leathers including Wet White Tanning.
- > Can be used for Bleaching Chrome and Vegetable Tanned Leather.

#### **APPLICATIONS :**

**PARATAN SW** can be used in all stages for the production of any articles ( e.g. Uppers, Garment, Lining etc. )

- |                      |   |  |
|----------------------|---|--|
| 1) Chrome Tanning    | : | 3.0 ~ 5.0% <b>PARATAN SW</b> , based on Pelt wt.   |
| 2) Wet White Tanning | : | 4.0 ~ 6.0% <b>PARATAN SW</b> , based on Shaved wt. |
| 3) Other Retanning   | : | 2.0 ~ 4.0% <b>PARATAN SW</b> , based on Shaved wt. |

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## **PARATAN WLE**

**Phenol Condensation Product which imparts Excellent Light Fastness to Leather**

### **SPECIFICATION :**

Basis	:	Phenol Condensation product
Appearance	:	White Powder
Solid Content	:	95 % Minimum
pH ( In 10% aqueous solut	:	3.0 ~ 4.0
Solubility	:	Excellent
Light Fastness	:	Excellent
Stability	:	Stable to Neutral Salts, Acids & Bases in usual concentrations in tannery. Compatible with Synthetic, Vegetable Tanning Agents & Dyes.

### **ADVANTAGES :**

- > Gives Fuller Leather with fine and smooth grain and the color will be very clear.
- > Used mainly in the production of White and Light Fast Leather.
- > Has got very good Self - Tanning Power & hence, it can be highly recommended in the production of Chrome Free or Wet White Tanning.
- > Enhances Excellent Light Fastness to the Leather with more uniform dyeing of Pastel Color.
- > Is inert to Salts and can be used in all the stages in all types of Leather.
- > In combination of Vegetable Extracts improves penetration of tanning with a clear color, elastic grain. It dissolves easily thus no sludge formation is found.
- > Has a good dispersing effect on the tanning bath.
- > Increases the Buffing Property.

### **APPLICATIONS :**

**PARATAN WLE** can be used in all stages for the production of any articles ( e.g. Uppers, Garment, Lining etc. )

- |                        |   |  |
|------------------------|---|--|
| 1) Upper Leather       | : | 3.0 ~ 8.0% of <b>PARATAN WLE</b> on shaved wt.           |
| 2) Garment Leather     | : | 2.0 ~ 4.0% of <b>PARATAN WLE</b> on Shaved wt.           |
| 3) Light Leather       | : | 2.0 ~ 6.0% of <b>PARATAN WLE</b> on Shaved wt.           |
| 4) Sheep Skin          | : | 3.0 ~ 5.0% of <b>PARATAN WLE</b> on Shaved wt.           |
| 5) Chrome Free Leather | : | 2.0 ~ 3.0% of <b>PARATAN WLE</b> on Wet White Shaved wt. |

**PARATAN WLE Liquid is available with 50% Solid Content**

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## **PARATAN R7**

### **Anionic Amino Resin Tanning Agent based on DCDA**

#### **SPECIFICATION :**

Basis	:	Amino Resin Blended with Anionic Dispersant & Inert Filler
Appearance	:	Beige colour free flowing powder
Solid Content	:	95 % Minimum
pH (In 10% aqueous soln)	:	8.0 ~ 9.0
Solubility	:	Soluble in water with slight sediments
Light Fastness	:	Excellent
Stability	:	Stable to Neutral Salts, Acids & Bases in usual concentrations in tannery. Compatible with Synthetic, Vegetable Tanning Agents & Dyes.

#### **ADVANTAGES :**

- > It has a selective filling action, which is mainly deposited in loose structured parts of the leather.
- > Due to less astringency it do not disturb the grain, hence the resultant leather will be flat with fine grain.
- > Improves the fullness of chrome leathers & tightens the grain.
- > It tighten the grain and improves the feel of the leather.
- > Imparts good surface for Buffing and Embossing.
- > Imparts good level dyeing properties.

#### **APPLICATIONS :**

**PARATAN R7** can be used up to 5.0% for all types of leather to get tight grain and to improve the fullness of loosely structured parts of the leather.

**PARATAN R7** is suitable for retanning of all types of Chrome Leather. It can be used alone or in combination with Synthetic, Vegetable & Chrome Tanning materials.

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## PARATAN R7FF

**Formaldehyde Free Anionic Amino Resin Tanning Agent based on White DCDA**

### SPECIFICATION :

Basis	:	Amino resin blended with anionic dispersant & inert fillers
Appearance	:	Off white colour free flowing powder
Solid Content	:	95 % Minimum
pH (In 10% aqueous soln)	:	10.0 ~ 11.0
Solubility	:	Soluble in water with slight sediments
Light Fastness	:	Good
Stability	:	Stable to Neutral Salts, Acids & Bases in usual concentrations in tannery. Compatible with Synthetic, Vegetable Tanning Agents & Dyes.

### ADVANTAGES :

- > Unlike other DCDA products, it does not give dark shade color to the leather, so suitable for making white or pastel shades.
- > It has a selective filling action, gives uniform fullness and roundness to the leather. Due to less astringency it do not disturb the grain, hence the resultant leather will be
- > flat with fine grain. Due to its special chemical property it makes the water soft hence good penetration
- > effect and gives an excellent fullness loose structured parts of the leather.

### APPLICATIONS :

After neutralization, at the beginning of re-tanning and before dyeing.

- |                |   |  |
|----------------|---|--|
| 1) Sheep Skins | : | 2.0 ~ 4.0% <b>PARATAN R7FF</b> based on Shaved wt. |
| 2) Goat Skin   | : | 1.0 ~ 2.0% <b>PARATAN R7FF</b> based on Shaved wt. |
| 3) Garment     | : | 2.0 ~ 3.0% <b>PARATAN R7FF</b> based on Shaved wt. |
| 4) Upper       | : | 3.0 ~ 4.0% <b>PARATAN R7FF</b> based on Shaved wt. |

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## PARATAN CRL

### Cresylic Syntan

### Chrome Tanning, Retanning and Dyeing Auxilliary Syntan

#### SPECIFICATION :

Basis	:	Mixture of Aromatic sulfonates ( Cresylic )
Appearance	:	Pale Yellow Powder
Solid Content	:	95 ± 1.0%
pH ( In 10% aqueous solu	:	3.0 ~ 4.0
Solubility	:	Soluble in any water ratio
Light Fastness	:	Excellent

#### ADVANTAGES :

- > It is completely soluble in water with the neutral pH.
- > **PARATAN CRL** is stable to Neutral Salts, Acids & Bases in usual concentrations in tannery.
- > It is compatible with Synthetic Tanning Agents, Vegetable Tanning Agents and Dyes.
- > Compatible with Synthetic Tanning Agents, Vegetable Tanning Agents, Anionic Dyes & Additives.
- > The product has mild retanning & neutralizing effect on chrome leathers, which increases anionic nature of the leather when used along with chrome & vegetable extracts, thereby treated leathers will have strong affinity towards Anionic Dyes.
- > It will improve the Grain Tightness, makes the leather more resilient along with improved perspiration of the leather, which is essential for upper leathers.
- > Light Fastness comparison with Naphthalene Sulphonic & Di - Sulphonic Acid based syntan alongwith **PARATAN CRL**.
- > When used for the retanning of chromed stock **PARATAN CRL** produces a leather with a mellow, tight grain and a soft round handle. This makes it particularly suitable for retannage of softy leathers, e.g. Softy Shoe Upper, Garment Nappa, etc. from all types of material e.g. Bovine, Sheepskin etc.
- > It is also specially recommended for retannage of Automotive or Soft Upholstery Leathers, where its soft, mellow feel together with its good bleaching effect make it an ideal retanning material for Pastel Dye Shades.

#### APPLICATIONS :

- 1.0 ~ 2.0% **PARATAN CRL** based on shaved weight in Chrome Tanning
- 2.0 ~ 3.0% **PARATAN CRL** based on shaved weight along with Vegetable Extracts
- 1.0 ~ 1.5% **PARATAN CRL** based on shaved weight along with Dyes

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## PARATAN AA

### Aliphatic Aldehyde

#### SPECIFICATION :

Basis	:	Aliphatic Aldehyde
Appearance	:	Clear to Pale Yellow Transparent Liquid
Solid Content	:	45 ± 1.0%
Moisture Content	:	45 ± 1.0% ( By Karl Fischer Method )
Charge	:	Anionic
pH (In 10% aqueous soln)	:	6.5 ~ 7.5
Solubility	:	Soluble in water in any proportion, with clear solution
Stability	:	Stable to almost all Tanning Agents, Dyes and Fatliquoring Agents used in Tanneries.

#### ADVANTAGES :

- It is free from Free Formaldehyde, so non - yellowing in nature and has excellent Light
- > Fastness.
- The product can be used undiluted form in the entire Acid & the weakly Alkaline pH
- > range.
- It can be used at the end of process to control the visible looseness after Fatliquor &
- > Fixation.
- > It helps in maintaining the mellowness of leather with very good surface touch.
- > Generally, the product will improve the even distribution of the natural fat, diffusion of the other tanning agents and uniform distribution through the cross section of the leather, it helps in better exhaustion of fatliquor.
- > For hides with open pores on the grain, it helps in improving the compactness.
- It can be added in Neutralization bath before initiating Neutralization to control double
- > layer.

#### APPLICATIONS :

Chrome Free Pre - Tanning / Tanning	:	3.0 ~ 6.0% <b>PARATAN AA</b> based on Pelt wt.
	:	1.0 ~ 3.0% <b>PARATAN AA</b> before Chrome, on Pelt wt.
Chrome Tanning	:	
Other Retanning	:	2.0 ~ 4.0% <b>PARATAN AA</b> based on Shaved wt.
In Neutralization / Retannage :	:	2.0 ~ 4.0% <b>PARATAN AA</b> based on Shaved wt.
For Dyeing of Rewetted Crust Leather	:	1.0 ~ 2.0% <b>PARATAN AA</b> based on Dry wt.

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## **PARATAN WMT** **Mineral Tannin for White Leathers**

**PARATAN PMT** is an environment friendly substitute of chrome for chrome free white leather.

It is truly a revolutionary product for tanning industries.

It's a mixture of pure natural minerals and synthetic vegetable cellulose.

### **SPECIFICATION :**

Basis	:	Pure Natural Mineral and Synthetic Vegetable Cellulose
Appearance	:	White Powder
Active Substance	:	Inorganic salt mixture 30% min.
pH (In 10% aqueous soln)	:	3.5 ~ 4.0
Solubility	:	Readily soluble in water

### **ADVANTAGES :**

- > 6 ~ 8% is recommended for main tannage and 3 ~ 4% for retannage of white leather.
- > It is highly acidic and possesses outstanding tanning properties when used with suitable masking basification.
- > **PARATAN PMT** is totally free of toxic chemicals ( Formaldehyde, Phenol and Naphthalene )
- > It is free of chrome, so there is no chance of **Chrome VI** formation.
- > Excellent water resistance, UV interception, High Tensile and Puncture Strength.
- > Protection of color contamination and excellent dyeing effect.
- > It is compatible with other syntans.

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## PARATAN ZMT Mineral Tannin for White Leathers

**POPTAN ZMT** is an environment friendly substitute of chrome for chrome free white leather. It is truly a revolutionary product for tanning industries.

### SPECIFICATION :

Basis	:	Zirconium Sulphate Condensate
Appearance	:	White Powder
Active Substance	:	Inorganic salt mixture 40% min.
pH (In 10% aqueous soln)	:	4.0
Solubility	:	Readily soluble in water

### ADVANTAGES :

- > 6 ~ 8% is recommended for main tannage and 3 -4% for retannage of white leather.
- > It is highly acidic and possesses outstanding tanning properties when used with suitable masking basification.
- > **PARATAN ZMT** is totally free of toxic chemicals ( Formaldehyde, Phenol and Naphthalene )
- > It is free of chrome, so there is no chance of **Chrome VI** formation.
- > Excellent water resistance, UV interception, High Tensile and Puncture Strength.
- > Protection of color contamination and excellent dyeing effect.
- > It is compatible with other syntans.

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## **PARATAN WCRP** **Eco Friendly Chrome Free Tanning Agent**

### **SPECIFICATION :**

Basis	:	Mixture of Organic & Inorganic Compounds
Appearance	:	White Powder
Solid Content	:	97%
Zeolite Content	:	70%
pH (In 10% aqueous soln)	:	4.0 ~ 5.0
Charge	:	Anionic

### **ADVANTAGES :**

- > **PARATAN WCRP** is a eco friendly product which is totally free of phenol, formaldehyde, naphthalene and sulfone.
- > **PARATAN WCRP** usage gives very low COD/BOD load on the effluent system, which is quite desirable in modern day industry requirements.
- > **PARATAN WCRP** is biodegradable. It is recommended in producing chrome free wet white leathers.
- > **PARATAN WCRP** has a selective filling action, mainly depositing in the loose structured parts of leather.
- > **PARATAN WCRP** is compatible with Vegetable tanning extracts and when used with Vegetable Extracts gives extra softness with increased fullness without altering vegetable character. It also eliminates the usage of glutaraldehyde based tanning agents.
- > **PARATAN WCRP** can be used as a bleaching agent in the retanning stage.

### **APPLICATIONS :**

- > **PARATAN WCRP** is recommended for Furs, Garment, Automotive, Upholstery, Suedes, Nubuck, Shoe Nappa, Gloves, Split and Bag leather.
- > **PARATAN WCRP** is used for pre tanning and tanning leathers. For tanning cow leathers the recommended dosage is 6 - 10%.
- > For tanning small leathers, it's recommended dosage is 5 - 8% and for tanning Fur leather, it's recommended dosage is 5 - 7%

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## PARATAN NLD

### Naphthalene Condensate Syntan - Neutralising, Levelling and Dispersing Syntan

#### SPECIFICATION :

Basis	:	Salt of Naphthalene sulphonic acid condensation product
Appearance	:	Light Beige powder
Solid Content	:	95 ± 1.0%
pH (In 10% aqueous soln)	:	7.0 ~ 8.5
Solubility	:	Readily soluble in water
Light Fastness	:	Good
Stability	:	Stable to Neutral Salts, Acids & Bases in usual concentrations in tannery. Compatible with Synthetic, Vegetable Tanning Agents & Dyes.

#### ADVANTAGES :

- > Reduces the affinity of Anionic Dyes and penetrates slowly through cross section of the leather, results in uniform, level and penetrated dyeing.
- > It can be used as a dispersing agent for syntans for through penetration of the syntans.
- > Acts as a Neutralising Agent, may be used either alone or in combination with commercial Neutralizing Agents such as Sodium Bicarbonate, Sodium Formate etc.
- > Can be used for retanning chrome leathers with vegetable extracts to increase penetration of other retanning agents uniformly to get desired fullness to the leather.

#### APPLICATIONS :

Dyeing on Wet Blue

- 1) For deep shades and penetration : 1.0 ~ 2.0% **PARATAN NLD**, based on Shaved wt.
- 2) For pastel shades : 0.5 ~ 3.0% **PARATAN NLD**, based on Shaved wt.
- 3) On Crusting : 3.0 ~ 6.0% **PARATAN NLD**, based on Crust wt.
- 4) During Retanning along with Syntans : 2.0 ~ 3.0% **PARATAN NLD**, based on Shaved wt.
- 5) During Vegetable Tannin along with Vegetable products or Syntans : 2.0 ~ 3.0% **PARATAN NLD**, based on Shaved wt.

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## **PARATAN LSD**

**Levelling Agent with slight Tanning properties; Dispersing Agent for Vegetable Tannins.**

### **SPECIFICATIONS :**

Appearance : Very light, yellowish - brown powder, readily soluble in water.  
Chemical Constitution : Sodium Salt of an aromatic sulphonic acid, anionic.  
Active Ingredients : 96%  
pH of 10% soln. : 7.5 ~ 8.5

### **ADVANTAGES :**

**PARATAN LSD** is versatile in application :

- > In dyeing as levelling & lightening agent for anionic dyes, especially suitable for medium to pastel shades.
- > For the fixation of Cationic Dyes and Fatliquors.
- > As dispersing agent for vegetable tannins & in retannages with anionic and nonionic resin tannins. Promotes penetration and distribution of tannin while simultaneously improving the dyeability.

### **APPLICATION :**

#### **Dyeing Pale and Pastel shades with Anionic Dyes**

**PARATAN LSD** is used here as a levelling & brightening agent. It is added at the beginning of the dyeing about 10 minutes before the dye is added, either dissolved in a 1:5 ratio or in powder form. It can also be added directly together with dye, in which case dyeing is lightened somewhat less.

Amounts :	Medium ~ Pale Shades	0.2 ~ 1%	On the shaved weight
	Pastel Shades	1 ~ 3 %	On the shaved weight

#### **Fixation of Cationic Dyes and Fat Liquors**

Additional fixation of dyeings or topplings with Cationic Dyes and cationic fatliquors can be obtained by an after treatment with **PARATAN LSD**. It is added to the exhausted dyeing or fatliquoring bath.

Amounts : 0.5-1.0% **PARATAN LSD** calculated on the shaved weight.

#### **Vegetable Tanning**

**PARATAN LSD** disperses the vegetable tannin, largely prevents the formation of undesired sludge and speeds up the through - Tanning process.

Amounts in drum tanning : 2-10% **PARATAN LSD** based on the amount of vegetable tannin.

#### **In Retannages**

**PARATAN LSD** is added as a Dispersing and Levelling agent to retannages with vegetable tannins as well as anionic and nonionic resin tannins; the penetration of the retanning agents thereby becomes more uniform and the grain remains more elastic.

Amounts : 5-30% **PARATAN LSD** based on the retanning agent.

### **HANDLING PRECAUTIONS :**

The eyes and respiratory tracts should be protected against contact with the product as it has a strong irritating effect on the mucous membrane.

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## **PARATAN BCBT4**

**Dispersing and Bleach Tanning agent for Vegetable Tanned Leather  
Similar to BASYNTAN BCBT4 (BASF)**

### **SPECIFICATIONS :**

Appearance	:	Light beige colour powder
Chemical Nature	:	Naphthalene sulphonic acid condensate
Active Matter	:	96%
pH of 10% soln.	:	1.8 ~ 2.0

### **ADVANTAGES :**

**PARATAN BCBT4** is a synthetic tanning agent for bleaching vegetable or retanned leather to a pale colour. It is particularly suitable for bleaching sole-sandal and vegetable tanned industrial leathers.

**PARATAN BCBT4** is a bleach tanning agent in powder form readily soluble in water. Due to its high dispersing effect of vegetable extracts it favours penetration and speeds up tanning.

**PARATAN BCBT4** is stable to iron and does not give rise to discoloration. It removes iron stains formed on vegetable tanned or retained leather.

### **APPLICATION :**

**PARATAN BCBT4** should be used in vegetable tanning (2 ~ 5% on pelt weight), alternating it with the vegetable extracts.

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Manufacturers of Leather Dyes & Tanning Chemicals

C-24, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400031 India • Tel : +91-22-2415 6162 / 2415 613

Email : [parth@parth-international.co.in](mailto:parth@parth-international.co.in) • Website: [www.parth-international.co.in](http://www.parth-international.co.in)



# VEGETABLE EXTRACT

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C-24, 2nd Floor, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400 031. India · Tel.: +91-22-2415 6162 / 4015 5162  
E-mail: parth@parth-international.co.in · Website : leatherdyes.co.in



## PARAVEG TARA W



Tara Powder is a natural source of tannins extracted from its valuable fruits called Tara Pods (Caesalpinia Tinctoria). The tannin of the Caesalpinia Tinctoria has a pyrogallic character, but small quantities of catechol derivatives are also present in it.



**PARAVEG TARA W** is a modified pyrogallol extract. **PARAVEG TARA W** is free of extraneous substances. Tannage with **PARAVEG TARA W** gives a supple, white leather with very good and unmatched resistance to light with maximum softness and fullness as well as a very fine tight grain.

### SPECIFICATIONS :

Appearance	: Light (White-beige) Color Powder
Solid content	: 93.00%
Tannin Content	: 55% ~ 60%
Non Tannins	: 20% ~ 22%
Insolubles	: 16% ~ 18%
Moisture %	: 5% ~ 6%
pH of 10% solution	: 4.0 ± 1
Light Fastness	: Excellent

### KEY PROPERTIES :

- > **PARAVEG TARA W** is easily soluble in water. Tara Pods give a solution very rich in Tannin Acids & Gallic acid.
- > **PARAVEG TARA W** has medium astringency which allows to obtain sole leather with a nice light colour without risk of crispation.
- > **PARAVEG TARA W** have a very light natural color and they are used to obtain very clear leathers with good light and heat fastness. They give fullness and softness to the leathers, with a smooth and firm grain.
- > In combination with other vegetable extracts, the light fastness of the leather is noticeably improved and the colors obtained are cleaner.
- > In retannage on chrome leather, **PARAVEG TARA W** gives uniform, strengthened, pastel shades.

### APPLICATION :

**PARAVEG TARA W** is used for making Soft Garment, Car Leather, dry milled & Upholstery leather. When used in Shoe upper / Nubuck Leather, it gives full & mellow leather. Also, lambskin is tanned with tara tannins. **PARAVEG TARA W** gives leather fullness and softness and at the same time a fine, closed grain. In leathers tanned with **PARAVEG TARA W** the grain resistance to breaking load is higher than that achieved with any other vegetable tannin.

### STORAGE :

**PARAVEG TARA W** maintains its characteristics unchanged if properly stored in dry premises protected from sunlight in closed bags.

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## PARAVEG CHESTNUT



Tannins obtained from chestnut wood (*Castanea sativa*), are of a pyrogallol nature and belong to a group of glucosidic tannins which are easily hydrolysable. Chemically it is an ester of phenol carbonic acids and higher alcohol.

Astringency is the main characteristic which determines the tanning properties of different types of extracts. The astringency depends upon a number of factors which can be varied. It is evident how it is possible to obtain different chestnut extracts with a lower degree of astringency and, consequently, with a different tanning behavior.

**PARAVEG CHESTNUT CHS / CHN / MSU** extracts contain a convenient quantity of acid groups and natural organic acids, which determine their considerable astringency and their capability to fix larger scales of the hide. These properties make chestnut extract especially suitable for the tanning of heavy hides to produce leather soles in particular. The chestnut tanned leathers are elastics, light fast, resistant to traction and abrasion and have good colour.

### SPECIFICATIONS :

#### **CHS (SWEETENED)**

#### **CHN (UNSWEETENED)**

#### **MSU (NEUTRAL)**



Appearance	: Brown Powder	Brown Powder	Dark Brown Powder
Solid content	: 93.00%	93.00%	93.00%
Tannin Content	: 68% ~ 70%	70% ~ 72%	69% ~ 71%
Non Tannins	: 18% ~ 22%	18% ~ 22%	18% ~ 22%
Insolubles	: 1%	1%	1%
Moisture %	: 6% ~ 7%	5% ~ 6%	5% ~ 6%
pH of 10% solution	: 4 ~ 5	3 ~ 4	3.5 ~ 4.5
Light Fastness	: Excellent	Excellent	Excellent

Contd.....

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### **KEY PROPERTIES :**

- > After Mimosa and Quebracho extracts, Chestnut Extract is the third most important vegetable tannin used for leather production.
- > **PARAVEG CHESTNUT CHS / CHN / MSU** is used in the re-tanning of leather, tanned with vegetable tanning agents and of chrome leather. The addition amounts upto 30% by weight in all vegetable tanning. For special effects it can be mixed with other agents used in re-tanning. It improves hydrophobic properties of leather, levelling & fixing of colors & fats, as well as weight yield. **PARAVEG CHESTNUT CHS / CHN / KPS** can be used in many and varied applications, according to the kinds of leather to be produced and the tanning/re-tanning systems adopted.

### **APPLICATION :**

- > **PARAVEG CHESTNUT CHS / CHN / MSU** especially suitable for the tanning of heavy hides to produce leather soles in particular. It is possible to obtain leather with high yield in weight, which is compact, firm, flexible and waterproof. The chestnut tanned leathers are elastics, lightfast, resistant to traction and abrasion and have good color.
- > **PARAVEG CHESTNUT CHS**, hydrolysable extract, is mainly used in the first stage of the vegetable rapid, semi rapid and pit drum tanning, or too tan soft vegetable leathers such as Italian vacchetta. To re-tan chrome tanned leathers, we recommend the use of sweetened extracts for those articles which require a distinct look without affecting the typical characteristics of chrome tanned leathers, namely softness, lightness and gumminess.
- > **PARAVEG CHESTNUT CHN**, astringent extract, is used in vegetable tanning when full, firm and compact leathers are required which must be used only in the final tanning stage. They are used for the re-tanning of chrome tanned leathers to obtain compact and stiff articles. It imparts a lighter color to leathers compared to the normal astringent type.
- > **PARAVEG CHESTNUT MSU** - Neutralized hydrolysable extract used in the retanning of vegetable and chrome tanned leathers. Produces leather with smooth and compact grain character. Imparts a high level of fullness to the leather and has excellent print retention for embossed leathers.

### **STORAGE :**

**PARAVEG CHESTNUT CHS / CHN / MSU** maintains its characteristics unchanged if properly stored in dry premises protected from sunlight in closed bags.

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C-24, 2nd Floor, Royal Industrial Estate, Naigaon Cross Road,  
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E-mail: parth@parth-international.co.in · Website : leatherdyes.co.in



## PARAVEG DIV



The tannin is obtained from the dried twisted seedpods of a small leguminous tree, *Caesalpinia coriaria*, of the West Indies and South America, India.



### SPECIFICATIONS :

Appearance	: Light (White-beige) Color Powder
Solid content	: 93.00%
Tannin Content	: 56% ~ 60%
Non Tannins	: 20% ~ 22%
Kaolin	: 16% ~ 18%
Moisture %	: 2% ~ 4%
pH of 10% solution	: 4 ~ 5
Light Fastness	: Good

### KEY PROPERTIES :

- > **PARAVEG DIV** is easily soluble in water.
- > **PARAVEG DIV** can be used as a retanning agent for variety of leathers. It gives a pale, clean colour and hence used in producing white leather. **PARAVEG DIV** is often used in rapid drum tanning of light leathers and in leather dressing. It is also bloom forming.
- > **PARAVEG DIV** gives Fullness, Spongyness & tightness to the leathers, with a smooth and fine grain.
- > **PARAVEG DIV** has good buffing property and light fastness and mostly used in producing Suede and nubuck leather.
- > **PARAVEG DIV** gives a pale, clean colour to the leather and is used in producing white leather.

### APPLICATION :

**PARAVEG DIV** is generally used as a blend for tanning leather, mixed with other tanning materials.

### STORAGE :

**PARAVEG DIV** maintains its characteristics unchanged if properly stored in dry premises protected from sunlight in closed bags.

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## PARAVEG MIMOSA



Mimosa bark is a vegetable tannin, Mimosa extract is obtained from the bark of Black Wattle (*Acacia mearnsii*). The bark of the tree is used for tanning as it has a very high tannin content of up to 30 percent. Mimosa is a very versatile tanning compound and can be used for tanning on its own or in combination with other tanning compounds.







The application of Mimosa is very common worldwide and it can be modified by mixing with other types of tanning materials to adopt its characteristics to the specific leather type in re-tanning. Properties are natural soluble extracts, uniform in quality, pale in color, low in salts and sludge formation.

Mimosa extract is used mainly in the tanning of heavy leathers, such as sole, saddlery, case, insole, industrial leather, belt or for light leather manufacture viz. upholstery, garment, lining, shoe upper etc.

Mimosa extract is particularly suitable for modern tanning for hides or skins in drums, pits or processors and also for retanning of chrome tanned leathers.

### SPECIFICATIONS :

	<b>MIMOSA ME</b>	<b>MIMOSA MS</b>	<b>MIMOSA FS</b>	<b>MIMOSA GS</b>
				
Appearance	: Brown Powder	: Light Brown	: Light Brown	: Very Light Brown
Tannin Content	: 70% ~ 72%	: 68% ~ 70%	: 70% ~ 72%	: 67% ~ 69%
Non Tannins	: 20% ~ 24%	: 23% ~ 27%	: 25% ~ 29%	: 23% ~ 27%
Insolubles	: 0.5%	: 0.5%	: 2.0%	: 1.0%
Moisture %	: 4% Max	: 4% Max	: 7% Max	: 4% Max
pH of 10% solution	: 4 ~ 4.5	: 4 ~ 4.5	: 4.4 ~ 4.8	: 4 ~ 4.5
Light Fastness	: Excellent	: Excellent	: Excellent	: Excellent
Tanning Process	: Drums / Pits / Tanning Machines	: Drums / Pit Tanning	: Ideal for Drum Tanning	: Ideal for Drum Tanning

### STORAGE :

**PARAVEG MIMOSA ME / MS / FS / GS** maintains its characteristics unchanged if properly stored in dry premises protected from sunlight in closed bags.

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### **PARAVEG MIMOSA ME :**

**PARAVEG MIMOSA ME** is a natural Mimosa Extract, Brown, dedusted for use in all types of leather be it full-vegetable tannage or chrome-retanning applications in drums, pits or tanning machines.

**PARAVEG MIMOSA ME** is low in salts, insolubles and sludge formation.

On vegetable tannage, **PARAVEG MIMOSA ME** gives nice beige tone with fast and efficient Penetration. It is excellent on yield with good fixation. An optimal solution for vegetable tanned leathers including sole, strap and case.

On Chrome leather tannage, it gives excellent fullness and emboss retention & polish effect. It has better biffing properties & Bellies and Flanks Fillings. Depending on the substance and compaction upto 40% of **PARAVEG MIMOSA ME** can be used. For the tanning of strap and case leathers between 10 to 20% **PARAVEG MIMOSA ME** can be used.

Particularly Suitable for the re-tanning of chrome leather where fullness, buff ability and good printing & plating properties are required. The use of 5 % to 10% **PARAVEG MIMOSA ME** is recommended for normal leather and for heavy vegetable retannage on chrome leather, between 10% to 20% **PARAVEG MIMOSA ME** is recommended, depending on the desired feel of the leather.

Ideal for the production of Soles, straps, harnesses, cases, upholsteries, linings & other vegetable tanned leathers.

### **PARAVEG MIMOSA MS :**

**PARAVEG MIMOSA MS** powder is basically a lighter coloured Mimosa (Wattle) Extract compared to Mimosa ME.

The special bleaching process gives no increase in inorganic salts. The low salt content (i.e. low ash level) makes **PARAVEG MIMOSA MS** ideal for closed pit tanning operations but will also give all the good filling/firmness properties of standard Mimosa Extract and is hence also fine for drum tanning processes where light coloured vegetable leather is required.

This lightly bleached, dedusted powder is ideal for closed pit-tanning operations due to its low salt content, but also suitable for drum tanning applications where a lighter-coloured product is required than that using **Mimosa ME** Powder.

For vegetable tannage of sole, strap and case between 10% and 20% **PARAVEG MIMOSA MS** can be used in conjunction with other Mimosa products such as Mimosa GS, Mimosa ME and Mimosa FS.

For retannage of chrome leather between 5% and 10% **PARAVEG MIMOSA MS** is recommended.

**PARAVEG MIMOSA MS** is also most suitable for retanning chrome leathers. Its light colour and negligible bleaching action give good/level dyeing while still maintaining all the well known retanning properties of standard Mimosa Extract, namely good filling, soft/round handle, smooth grain, good print retention and good buffability.

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### **PARAVEG MIMOSA FS :**

**PARAVEG MIMOSA FS** is an exceptionally light-coloured, dedusted powder with reduced astringency, superior solubility and enhanced light-fastness.

Used for vegetable leather tanning where rapid penetration is required or in combination tannages and chrome retanning applications.

**PARAVEG MIMOSA FS** delivers rapid tannin penetration, light shades and smooth grain. It is especially suited for the retannage of chrome leathers.

**PARAVEG MIMOSA FS** is not recommended for pit tanning. However, it is ideal for drum tanning of full vegetable tanned leathers where it gives a light colour and pleasant feel.

Up to 20% **PARAVEG MIMOSA FS** can be used for full veg strap, case or bag leathers.

For chrome leather up to 15% **PARAVEG MIMOSA FS** is recommended.

For retannage of chrome leather between 5% and 10% **PARAVEG MIMOSA FS** is recommended.

**PARAVEG MIMOSA FS** can also be used in conjunction with other Mimosa products such as Mimosa ME, Mimosa MS and Mimosa GS.

### **PARAVEG MIMOSA GS :**

**PARAVEG MIMOSA GS** is double bleached very light coloured, dedusted powder produced from specially selected fresh bark. The extract solution is also chemically treated to lighten the colour. Leather tanned with **PARAVEG MIMOSA GS** has a very light colour.

It is recommended for vegetable leather tannages and retannages of chrome leather where a particularly pale shade is required.

A light coloured spray-dried dedusted Mimosa extract similar in other characteristics to normal Mimosa Powder. It is eminently suitable for retanning chrome leathers which are to be finished in lighter shades. As a light coloured doubled bleached extract, **PARAVEG MIMOSA GS** is susceptible to oxidation over time hence it is advisable to avoid prolonged storage. This oxidation process can be accelerated on exposure to high temperatures and sun light so it is advisable to store in a well ventilated and covered area.

**PARAVEG MIMOSA GS** is not recommended for pit tannages. However, it is ideally suited for full vegetable tanning where a very light coloured leather is required. Up to 30% **PARAVEG MIMOSA GS** can be used.

For the tannage of E.I. skins 25% **PARAVEG MIMOSA GS** is used.

For retannage on wet blue between 5% and 10% **PARAVEG MIMOSA GS** is recommended.

**PARAVEG MIMOSA GS** can be used in conjunction with other Mimosa products like Mimosa ME or Mimosa MS to adjust the shade of the leather.

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## PARAVEG QUEBRACHO



Quebracho colorado (*Schinopsis balansae* and *Schinopsis lorentzii*), commonly called quebracho is an evergreen tree. The name is due to its hardness, being derived from two Spanish words, quebrar and hacha, meaning the axe breaker. Quebracho extracts are classified according to their solubility in two main categories: cold soluble quebracho extract and semi-soluble quebracho extract.



**COLD SOLUBLE QUEBRACHO EXTRACTS** are obtained by subjecting the ordinary extract to a sulphiting process which transforms the phlobaphenes into completely soluble tannins. These extracts have very rapid penetration, high tannin content and a relatively low percentage of non-tannins. The rather low acid and medium salt content characterize them as mild tanning extracts (low astringency).

**SEMI-SOLUBLE QUEBRACHO EXTRACTS** are special types obtained by a partial solubilization, combined or not with a decolorization treatment. These extracts penetrate less rapidly than the soluble types but have a greater filling power. They contain a small quantity of insolubles, while the tannin and non-tannins contents are more or less the same as those of soluble extracts. The pH corresponds to the isoelectric tanning point.

### SPECIFICATIONS :

	<b>QUEBRACHO ATO</b>	<b>QUEBRACHO ATG</b>	<b>QUEBRACHO ATO G</b>	<b>QUEBRACHO ATO GC</b>
Appearance	Light reddish brown : mild hygroscopic powder	Reddish brown hygroscopic powder	Light reddish brown hygroscopic powder	Light reddish brown hygroscopic powder
Tannin Content	: 72% ± 1%	75% ± 1%	70% ± 1%	74% ± 1%
Non Tannins	: 20% ± 1%	20% ± 1%	20% ± 1%	10% ± 1%
Insolubles	: 1% Max	1% Max	1% Max	0.5% Max
Moisture %	: 8% Max	4% Max	4% Max	6% Max
pH of 10% solution	: 4 ~ 5.0	5.0 ~ 5.5	5.0 ~ 5.5	5.0 ~ 6.0
Light Fastness	: Very Good	Very Good	Very Good	Very Good
Tanning Process	Gives reddish orange colour on leather	Gives reddish brown colour on leather	Gives Golden Brown colour on leather	Gives Golden Brown colour on leather

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## Manufacturers of Leather Dyes & Tanning Chemicals

C-24, 2nd Floor, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400 031. India · Tel.: +91-22-2415 6162 / 4015 5162  
E-mail: parth@parth-international.co.in · Website : leatherdyes.co.in



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### **RECOMMENDATIONS :**

Using small amounts of sodium metabisulfite and formic acid in tanning liquors and processes lightens the colour and improves the appearance of the end products.

### **PARAVEG QUEBRACHO ATO :**

**PARAVEG QUEBRACHO ATO** is manufactured by chemically treating natural Quebracho extract in order to achieve full cold water solubility and by spray drying it. Quebracho contains the largest tannin percentage among vegetable extracts. This natural ATO extract is excellent for drum tannage and also for the retannage of chrome leathers. It is the most versatile vegetable extract and the most widely used in the world.

**PARAVEG QUEBRACHO ATO** can be used in all vegetable and mixed tanning and retanning processes, by itself or combined with other vegetable extracts or synthetic products. It is a most versatile vegetable extract. Its main properties are:

- > Complete dissolution in cold water
- > High tannin content
- > Rapid penetration
- > Excellent tanning properties, Uniform quality
- > Non dusty , Non astringent
- > Good weight yield in leather production
- > Full compatibility with vegetable tannins and syntans
- > **PARAVEG QUEBRACHO ATO** imparts to chrome leather better fullness, buffability, polishability, embossability together with bellies and shank filling.

### **PARAVEG QUEBRACHO ATG :**

**PARAVEG QUEBRACHO ATG** can be used in all tanning processes. Leather treated with this product present a REDDISH BROWN colour surface colour, with fullness and soft hides, firm and levelled grain, ready for embossing and buffing. Its main properties are:

- > Complete dissolution in cold water
- > High tannin content
- > Rapid penetration
- > Excellent tanning properties, Uniform quality
- > Non dusty , Non astringent
- > Good weight yield in leather production
- > Full compatibility with vegetable tannins and syntans
- > **PARAVEG QUEBRACHO ATG** imparts to chrome leather REDDISH BROWN colour surface colour, with fullness and soft hides, firm and levelled grain, ready for embossing and buffing.

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## Manufacturers of Leather Dyes & Tanning Chemicals

C-24, 2nd Floor, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400 031. India · Tel.: +91-22-2415 6162 / 4015 5162  
E-mail: parth@parth-international.co.in · Website : leatherdyes.co.in



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### **PARAVEG QUEBRACHO ATO G / PARAVEG QUEBRACHO ATO GC :**

**PARAVEG QUEBRACHO ATO G / PARAVEG QUEBRACHO ATO GC** can be used in all tanning processes. Leather treated with this product present a BRIGHT GOLDEN BROWN surface colour, with fullness and soft hides, firm and levelled grain, ready for embossing and buffing. Its main properties are:

- > Complete dissolution in cold water
- > High tannin content
- > Rapid penetration
- > Excellent tanning properties, Uniform quality
- > Non dusty , Non astringent
- > Good weight yield in leather production
- > Full compatibility with vegetable tannins and syntans
- > **PARAVEG QUEBRACHO ATO G** imparts to chrome leather BRIGHT GOLDEN BROWN surface colour. **PARAVEG QUEBRACHO ATO G** is more economical in price whereas **PARAVEG QUEBRACHO ATO GC** has more Tannin Content.

### **STORAGE :**

**QUEBRACHO ATO / QUEBRACHO ATG / QUEBRACHO ATO G / QUEBRACHO ATO GC** maintains its characteristics unchanged if properly stored in dry premises protected from sunlight in closed bags.

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## PARAVEG WATTLE



Wattle is a member of the Acacia family and is used extensively in leather tanning as it is prized for its even coverage and penetration of skins and pelts for tanning. Natural dyers use wattle extract as one of the rich tannins to create iron-based grays and blacks or to overdye with indigo to create interesting muted greens. The color is a beige with a pink cast and it has a characteristic toasted wood smell. Black Wattle is most commonly extracted to create the dye.



### SPECIFICATIONS :

#### **WATTLE POWDER**



Appearance	: Dark Brown Powder
Solid content	: 94% ~ 95%
Tannin Content	: 68% ~ 70%
Non Tannins	: 22% ~ 23%
Insolubles	: 0.5%
Moisture %	: 6% ~ 7%
pH of 10% solution	: 4.5 ~ 5
Light Fastness	: Excellent
	Mainly used for Pit, Pit-Drum & Drum Tanning

#### **WATTLE SOLID**



Brown Color Solid Lums	94% ~ 95%
	70% ~ 72%
	22% ~ 23%
	0.8% ~ 0.9%
	6% ~ 7%
	4.5 ~ 5
	Excellent
	Mainly used for Pit Tanning. Also Crushed & used in Drum Tanning.

**PARAVEG WATTLE POWDER** is a natural wattle extract powder. Easily soluble in water with high penetration level. On vegetable tannage, it gives good fixation and excellent yield while on retannage of chrome leather, it gives excellent polish & printing effect with buffing & flank filling properties. It is excellent for Pit Tannage, Pit-drum or drum tannage and also for the retannage of Chrome leathers.

**PARAVEG WATTLE SOLID** is a natural wattle extract Solid. Free of any additives and chemicals. It is easily soluble in water.

Pit Tanning: **PARAVEG WATTLE SOLID** is ideal for use in traditional pit tannages. Pit tannages are used mainly for tanning sole, strap, case, harness, bridle leathers and other vegetable tanned leathers. It can be dissolved to make up the initial liquor for the pit. It is also recommended to hang a bag of **PARAVEG WATTLE Solid** in the pit during tannage. It slowly dissolves thereby maintaining the level of %Tans.

Drum Tanning: **PARAVEG WATTLE SOLID** can be used in drum tanning where it is crushed and added to the drum in the desired quantity.

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## **PARAVEG MYROBALAN**



**PARAVEG MYROBALAN EXTRACT** is a tannic extract prepared from the nuts of Terminalia chebula (Terminalia Chebula Retz ). A rich natural tannin with low colour.

They are rich in hydrolysable tannins (pyrogallic) and very astringent and with good light fastness. The stones are opposite, they are low in tannins (3%) and have a strong smell. They are removed before the extraction process.



**PARAVEG MYROBALAN EXTRACT** tannins have a natural acidity of pH 3.2 due to their relatively high sugar content (3 to 5% sugars) which ferment in the tanning liquor. When used alone, myrobalan tannins tend to form a heavy porous leather, so it is usually mixed with other more astringent tannins, such as wattle, Quebracho or Mangrove.

### **SPECIFICATIONS :**

Appearance	: Light Yellowish Color Powder
Solid content	: 94.00%
Tannin Content	: 50% ~ 55%
Non Tannins	: 22% ~ 24%
Insolubles	: 3% ~ 4%
Moisture %	: 6% ~ 7%
pH of 10% solution	: 3.5 ± 1
Light Fastness	: Very Good

### **KEY PROPERTIES :**

- > Due to **PARAVEG MYROBALAN EXTRACT'S** high sugar content, the extracts ferment easily. Myrobalan extracts provide a light greenish yellow color to tanning liquors and leathers and they are used especially in the first steps of tanning sole leathers to compensate for the reddish color of tanning agents such as quebracho extracts.
- > It is an eco friendly natural tannin agent thus gets uniformly distributed in the leather and gives uniform feel.
- > **PARAVEG MYROBALAN EXTRACT** is rich in hydrolysable tannin (Pyrogallic) type material of vegetable Origin. It is high in acidity, astringent with good light fastness.
- > The reserve acidity in this powder given mellowing effect and promotes the fixation of condensed type tannins, blended with catechol tannins this imparts light color, fullness, plumpness roundness and grain break. It is more significant in making sole leather blended with Mimosa Extract.

### **APPLICATION :**

It is used in pit and drum processing in the manufacture of Cow, Buff Calf, Goat, TC, Bark Sole and other dyeing purpose. Its protects form oxidation and better fixation of condensed tannins.

By Blending with other syntans. It is Useful for re-tanning, particularly shrunken grain upper leathers. The reserve acidity in this powder gives mellowing effect and promotes the fixation of condensed type tannins.

Blended with catechol tannins, this imparts light colour, fullness, plumpness and firmness to leather.

This powder does not oxidize when exposed to sunlight and gives a protective coating to increase the colour fastness of the condensed tannins.

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## PARAVEG GAMBIER EXTRACT



Gambier is an extract obtained from the leaves and stems of "Uncaria Gambier" a plant which occurs in Asia both cultivated and wild. Uncaria Gambir is one of the best qualities for tanning purposes.



**PARAVEG GAMBIER EXTRACT** belongs to catechic group. It contains catechic, epicatechic group along with anthocyanidol which give the characteristic reddish brown shade of Gambier. Catechin has a high pH value, making it acidic.



**PARAVEG GAMBIER EXTRACT** combines rapidly with the proteins of the skin, in order to produce supple tannage, softer touch and fine grain. Due to the swelling property, **PARAVEG GAMBIER EXTRACT** is particularly suitable for the retannage of leathers and skins, which are too flat and too firm. At the end of the tannage, GAMBIEER acts as a levelling agent without affecting the dyeing intensity.



To prepare the extract, Gambier's leaves and twigs are boiled in water. The solution is then evaporated until a syrup is obtained and then cooled under agitation to promote crystallization. The resulting lumps, these lumps are then pulverized to make fine dedusted powder. In order to overcome the dissolution problem and to make them suitable for tanning and re-tanning leather, the gambier cubes are dissolved with tannin dispersants.

### SPECIFICATIONS :

Appearance	: Beige Color Spray dried Powder
Solid content	: 90.00%
Tannin Content	: 60%
Non Tannins	: 22%
Insolubles	: 6% ~ 7%
Moisture %	: 2% ~ 3%
pH of 10% solution	: 4.5 ~ 5
Light Fastness	: Very Good

### KEY PROPERTIES :

- > **PARAVEG GAMBIER EXTRACT** obtained contains mainly catechins and other compounds in smaller percentages such as sugars, salts, waxes, oils, and minerals.

### APPLICATION :

The extracts are used alone to confer rather soft leathers, with a fine touch and a reddish brown color.

These extracts are recommended for chrome re-tanning of cow hides and calf skins.

A peculiar property of gambier extracts is to give the skin good glazed and glossy properties of the dyes. For the production of burnished or brushed articles, we recommend the use gambier in the final recipe in combination with formic acid.







By using **PARAVEG GAMBIER EXTRACT** only, a very soft leather can be obtained, particularly in the re-tanning of calf-leather. However, Gambir extract is also used for the re-tanning of chrome-tanned glove leather, with a remarkable fullness of the leather as well as softness and elasticity.

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## PARAVEG BLACKS

**PARAVEG QUEBRACHO QC/B, PARAVEG MIMOSA MC/B & PARAVEG CHESTNUT CH/B** extracts are natural extracts having their respective tanning properties & gives Black colour. It's dark colouration makes dyeing optimization possible. Also overall cost of Black leather dyeing goes down.

### SPECIFICATIONS :

	<b>QUEBRACHO QC/B</b>	<b>MIMOSA MC/B</b>	<b>CHESTNUT CH/B</b>
Powder Appearance			
10% Vegetable Tanning			
Appearance	: Brown Hygroscopic Powder	: Light Brown Hygroscopic	: Dark Brown Hygroscopic
Solid content	: 94.00%	: 92.00%	: 93.00%
Tannin Content	: 63% ~ 65%	: 58% ~ 60%	: 63% ~ 65%
Non Tannins	: 29%	: 27%	: 28%
Insolubles	: 0.9%	: 0.7%	: 0.8%
Moisture %	: 5%	: 6%	: 5%
pH of 10% solution	: 5.0 ~ 5.5	: 4.5 ~ 5.0	: 5.0 ~ 5.5
Light Fastness	: Excellent	: Excellent	: Excellent

### PARAVEG QUEBRACHO QC/B

**PARAVEG QUEBRACHO QC/B** is soluble in cold & hot water. It provides tanned & retanned leather with excellent filling & higher fibre compaction. Its action upon dark colours by improving dyeing intensity. It imparts to chrome leather better fullness, buffability, polishability, embossability together with bellies and shank filling.

### PARAVEG MIMOSA MC/B

**PARAVEG MIMOSA MC/B** is soluble in cold and hot water. It provides tanned and retanned leather with excellent filling and higher fibre compaction. Its action upon dark colours by improving dyeing intensity. It is used mainly in the tanning of heavy leathers, such as sole, saddlery, case, insole, industrial leather, belt or for light leather manufacture viz. upholstery, garment, lining, shoe upper etc.

### PARAVEG CHESTNUT CH/B

It is especially suitable for the tanning of heavy hides to produce leather soles in particular. It is possible to obtain leather with high yield in weight, which is compact, firm, flexible and waterproof. The chestnut tanned leathers are elastic, lightfast, resistant to traction and abrasion and have good color.

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C-24, 2nd Floor, Royal Industrial Estate, Naigaon Cross Road,  
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E-mail: parth@parth-international.co.in · Website : leatherdyes.co.in



## PARAVEG WHITE PC



**PARAVEG WHITE PC** is Pyrogallol & Catechol Mixed Vegetable Tannin with Fillers.

**PARAVEG WHITE PC** is based on vegetable tanning material and it is used as a retanning agent for variety of leathers.

### SPECIFICATIONS :

Appearance	: Light Creamish white Color Powder
Solid content	: 95.00%
Moisture %	: 4% Max
pH of 10% solution	: $5.0 \pm 0.5$
Light Fastness	: Very Good

### KEY PROPERTIES :

- > **PARAVEG WHITE PC** is easily soluble in water.
- > **PARAVEG WHITE PC** gives a smooth & fine grain to leather with tightness and fullness.
- > **PARAVEG WHITE PC** gives good light fastness with high filling properties.
- > **PARAVEG WHITE PC** imparts high degree of suppleness and improves the tightness of the grain. It has a heavy bleaching effect when used on its own on chrome leather.
- > **PARAVEG WHITE PC** gives white clean & uniform colour to leather and hence mainly used in production of white leather.

### STORAGE :

**PARAVEG WHITE PC** maintains its characteristics unchanged if properly stored in dry premises protected from sunlight in closed bags.

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## PARAVEG WHITE DS



**PARAVEG WHITE DS** is based on Caesalpinia Spinosa. It has High Anti  
- Oxidant property preventing colour change during heating.



### SPECIFICATIONS :

Appearance	: White Fine Powder
Solid content	: 95% ± 1%
Moisture %	: 6% Max
pH of 10% solution	: 4.0 ~ 5.0
Light Fastness	: Excellent

### KEY PROPERTIES :

- > **PARAVEG WHITE DS** is easily soluble in water with slight sediments..
- > **PARAVEG WHITE DS** is stable to Neutral salts, Acids and Bases in usual concentrations in tannery. Compatible with Synthetic & Vegetable tanning agents & Dyes.
- > **PARAVEG WHITE DS** is not very astringent & maintains fineness of grain.
- > **PARAVEG WHITE DS** imparts bright, clean shade without the worry of iron stains.
- > While used during retanning of Nubuck and suede leather, gives fine & short nap.
- > Due to its nature of excellent filling, it helps to achieve homogeneous dry milling effect.
- > **PARAVEG WHITE DS** is white, lightfast and has a good resistance to "colour change" when heating, it has become the most preferred vegetable tannin for the production of chrome free automotive, upholstery leather and sheep skin garment leather.

### APPLICATION :

**PARAVEG WHITE DS** is used for making soft garment, dry milled and upholstery leather.

**PARAVEG WHITE DS** when used in shoe upper / Nubuck Leather, it gives full and mellow leather.

**PARAVEG WHITE DS** can be used in lining upper, bag and sole leather.

### STORAGE :

**PARAVEG WHITE DS** maintains its characteristics unchanged if properly stored in dry premises protected from sunlight in closed bags.

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C-24, Royal Industrial Estate, Naigaon Cross Road,  
Wadala, Mumbai - 400031 India • Tel : +91-22-2415 6162 / 2415 613  
Email : [parth@parth-international.co.in](mailto:parth@parth-international.co.in) • Website: [www.parth-international.co.in](http://www.parth-international.co.in)



# FATLIQUORS

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## PARA SYNTHOIL FO / LF-10 / LF-8 Odourless fish oil based chrome stable Fatliquor

### SPECIFICATIONS :

	<b>PARA SYNTHOIL FO</b>	<b>PARA SYNTHOIL LF-10</b>	<b>PARA SYNTHOIL LF-8</b>
<b>Equivalent Products</b>	: Similar to Lipoderm Liquor 1 (CLARIANT)	Similar to Sulphirol SQ 610 (Smit & Zoon)	Similar to Sulphirol CF 177 (Smit & Zoon)
<b>Active Ingredients</b>	: 80% ± 2	75% ± 2	70% ± 2
<b>Appearance</b>	: Slightly viscous light brown emulsion.		
<b>Chemical Character</b>	: Sulphited high quality fish oil.		
<b>pH of 10% soln.</b>	: 7.0 ~ 8.0		
<b>Ionic charge</b>	: Anionic in nature		
<b>Stability</b>	: Stable to acid, alkali, salt and mineral tanning agents		

### ADVANTAGES :

- > **PARA SYNTHOIL FO / LF-10 / LF-8** is an all purpose anionic fat liquor for high degree of softness suitable for chrome and Semi Chrome as well as for vegetable tanned leathers. It is easily emulsifiable in water at normal temperature.
- > Leather treated with **PARA SYNTHOIL FO / LF-10 / LF-8** not only possesses softness and suppleness, but also, good tensile strength and water resistance. It imparts instant softness without high fat addition to the leather when it is partly incorporated in neutralization. We recommend 0.5-2.0% PI-synthoil FO in neutralization, depending upon the degree of softness required.
- > **PARA SYNTHOIL FO / LF-10 / LF-8** can also be used in rechroming prior to the addition of chrome powder to get extra softness and better chrome exhaustion. It has inherent properties to open leather fibres and to produce a fluffy, soft and round leather.
- > **PARA SYNTHOIL FO / LF-10 / LF-8** has no effect on aniline dyes. It is satisfactorily fast to light and does not impart any yellowing to leather under normal conditions.

### APPLICATION :

- > Due to its excellent versatile properties, it can be used on a wide variety of leathers e.g. lining, upper, softies, Upholstery, Nappa, glove, clothing etc. To avail its maximum efficacy to achieve desired softness, we recommend **PARA SYNTHOIL FO / LF-10 / LF-8** to be used stage wise i.e. in re-chroming, neutralization as well as in main fat liquoring.

### PACKING & SHELF LIFE :

Storage should be away from extreme conditions wherever possible. Under extreme climatic conditions this product may separate slightly. So it should always be well stirred prior to use.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA OIL SVF**

### **Weakly Sulphonated Vegetable Fatliquor Similar to Synthol SF 838 (Smit & Zoon)**

#### **SPECIFICATIONS :**

Appearance	: Beige colour liquid.
Chemical Character	: Fatliquor based on synthetic and vegetable fats, weakly sulphonated.
Active Ingredients	: 60%
pH of 10% soln.	: 7.0 $\pm$ 1
Ionic charge	: Anionic in nature
Light Fastness	: Good
Stability	: Stable to normal pH ranges of leather processing.

#### **ADVANTAGES :**

- > **PARA OIL SVF** gives stable emulsions when emulsified with cold or hot water.
- > **PARA OIL SVF** has special feature of excellent wetting and dispersing properties due to which it assists in good dye levelling and improved penetration.
- > **PARA OIL SVF** is particularly recommended to obtain soft skins. It confers fullness and a silky touch to leather.

#### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. It is always advantageous to stir well before.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA OIL SVO9** **Vegetable Based Fatliquor**

### **SPECIFICATIONS :**

Appearance	: Light Reddish Brown Liquid
Chemical Character	: Sulphited Vegetable Oil
Active Ingredients	: 60% $\pm$ 2 %
pH of 10% soln.	: 7.0 $\pm$ 1
Ionic charge	: Anionic
Light Fastness	: Fairly Good
Stability	: Stable to normal pH ranges of leather processing.

### **ADVANTAGES :**

- > **PARA OIL SVO9** is a complete anionic fatliquor with wide range of application to almost all type of leathers, imparting some specific properties. Emulsion can be made with cold or hot water without any major variation in the particle size of the emulsion.
- > **PARA OIL SVO9** produces leathers with pleasant touch and mellow handle.

### **APPLICATION :**

- > **PARA OIL SVO9** can be used for variety of leathers, particularly medium light leathers like Uppers, Garment, Lining etc. While blending with other fatliquores, better results may be achieved if **PARA OIL SVO9** and all other fatliquores in required proportion are first mixed together and then gradually diluted with water to form a fine emulsion.

### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. It is always advantageous to stir well before.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTHOIL MKG LIQUID**

**Anionic, Semi-Synthetic Fatliquor  
Similar to Dermalix MKG (CLARIANT)**

**PARA SYNTHOIL MKG LIQUID** is a versatile fatliquor combinable with all fatliquors and capable of producing leathers with inner softness of excellent level.

### **SPECIFICATIONS :**

Appearance	: Clear yellow liquid.
Chemical Character	: Anionic, based on synthetic oils, modified vegetable oil, esters of fatty substances and monohydric alcohol sulphited.
Active Ingredients	: 65% approx
pH of 10% soln.	: 7.0 $\pm$ 1
Stability	: Stable in weak acids, salt, hard water and vegetable tannin.

### **ADVANTAGES :**

- > **PARA SYNTHOIL MKV LIQUID** produces good fullness.
- > **PARA SYNTHOIL MKG LIQUID** imparts excellent softness.
- > **PARA SYNTHOIL MKG LIQUID** exhibits good handle and feel.
- > **PARA SYNTHOIL MKG LIQUID** is non-yellowing and non-spewing.

### **APPLICATION :**

- > **PARA SYNTHOIL MKG LIQUID** can be recommended for fatliquoring softy leather, cow dry milled, buff upper, sheep Nappa and split suedes.

### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. Under extreme climatic conditions this product may separate slightly. So it should always be well stirred prior to use.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## PARA SYNTHOIL LAN

**Anionic Fatliquor with Lanolin Component for high degree of softness coupled with fullness and pleasant handle. Similar to Corilene RBF (STAHL)**

Anionic Fatliquor with lanolin component for high degree of softness coupled with fullness and pleasant handle.

### SPECIFICATIONS :

Appearance	: Light reddish brown viscous liquid.
Chemical Character	: Typical Lanolinic
pH of 10% soln.	: 7.0 ~ 8.0
Active Matter	: 60%
Light Fastness	: Satisfactory
Stability	: Stable to hard water, weak acid, weak alkalies, electrolytes, anionic and non-ionic fat liquor and syntans normally used in tannery operations.

### ADVANTAGES :

- > **PARA SYNTHOIL LAN** is right combination of properly synthesised lanolin and other fatty acids which imparts a thorough fatliquoring with nourishing effect and smooth silky surface touch when used as main fatliquor for Nappa class of leather.
- > **PARA SYNTHOIL LAN** possesses excellent compatibility with sulphonated, sulphited, bi-sulphited fatliquor and in combination, it induces excellent body into the fatliquor mix and increases spreadability of the resultant emulsion. It also regulates water uptake of the fatliquor blend. It always should be mixed with at least 1:4 proportion of water with constant stirring to achieve finer particle size of its emulsion. We recommend to add **PARA SYNTHOIL LAN** into water with constant stirring.
- > **PARA SYNTHOIL LAN** helps in quick penetration of dyestuff and has no effect on shade.

### APPLICATION :

- > **PARA SYNTHOIL LAN** can be recommended for fatliquoring all types of leather i.e. from softy upper to very soft Nappa or Upholstery leather.
- > **PARA SYNTHOIL LAN** is also suitable for pre-fatliquoring for even penetration and distribution of syntans and vegetable extracts during retanning.
- > As main fatliquor **PARA SYNTHOIL LAN** is suitable for all types of leather. For softy upper types of leather, 2% **PARA SYNTHOIL LAN** gives good softness, fullness, good touch and helps to reduce the risk of looseness.
- > For Nappa type of leather **PARA SYNTHOIL LAN** could be used upto 10% for achieving excellent softness, fluffiness and pleasant handle on the surface.

### PACKING & SHELF LIFE :

Storage should be away from extreme conditions wherever possible. It is always advantageous to stir well before use.

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## **PARA SYNTHOIL SOL-CB**

### **Sulphated natural oil in solvent**

### **Similar to Solcodine C (Smit & Zoon)**

**PARA SYNTHOIL SOL-CB** is a new special type of synthetic fat liquor for suede, Nubuck, Garment and gloving leather. It increases the brilliance and depth of the dyeing and imparts luster and sheen to suede leathers.

#### **SPECIFICATIONS :**

Appearance	: Light Amber oil.
Chemical Character	: Sulphated natural oil in solvent.
Active Ingredients	: 80%
pH of 10% soln.	: 6.5~ 7.5
Ionic Nature	: 80%
Stability	: Stable to weak acids, alkalis, tanning agents and electrolytes
Solubility	: Readily soluble in all proportions with water
Compatibility	: Good with anion-active, nonionic and cation-active substances.

#### **ADVANTAGES :**

- > **PARA SYNTHOIL SOL-CB** gives a pleasing, silky handle
- > **PARA SYNTHOIL SOL-CB** gives a good luster and two-way nap.
- > **PARA SYNTHOIL SOL-CB** produces very soft leathers.
- > **PARA SYNTHOIL SOL-CB** used for re-fatliquoring of crust leather.

#### **APPLICATION :**

- > **PARA SYNTHOIL SOL-CB** when used in combination with other synthetic and natural fat, a thorough fatliquoring without bony feel and dry noise is achieved.
- > **PARA SYNTHOIL SOL-CB** also helps in reducing fatliquoring period when used in fat-mix.
- > **PARA SYNTHOIL SOL-CB** imparts dry feel on the leather surface which helps to improve adhesion of the finishing mix.
- > Suede leathers when fatliquored with **PARA SYNTHOIL SOL-CB** produces lustrous sheen and independant movement of the fibres.
- > Its fastness to light and compatibility with anionic dyes without loss of shade makes **PARA SYNTHOIL SOL-CB** suitable for fatliquoring softies, Garment and gloving.
- > Leathers at all levels of colour giving a silky handle to the leather.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTHOIL LIQUOR SPO**

**A versatile fatliquor for all types of leather  
Similar to Vernol Liquor SP (CLARIANT)**

**PARA SYNTHOIL LIQUOR SPO** is a versatile lubricant for fatliquoring operations having application properties similar to that of natural sperm oil.

### **SPECIFICATIONS :**

Appearance	: Clear amber liquid.
Chemical Character	: Anionic fatliquor based on high molecular weight fatty ester.
pH of 10% soln.	: 8.0 ~ 9.0
Active Matter	: 65% ± 2
Stability	: Stable to hard water, natural salts, acids, alkalies as well as to vegetable, synthetic and mineral tanning agents.

### **ADVANTAGES :**

- > **PARA SYNTHOIL LIQUOR SPO** has a strong emulsifying power and is ideal for any quality leather. Desired softness can be achieved making the leather light in weight.
- > **PARA SYNTHOIL LIQUOR SPO** imparts required degree of softness and fullness without making the grain loose in a typical characteristic manner of natural sperm oil.
- > **PARA SYNTHOIL LIQUOR SPO** imparts a pleasing handle and suppleness, keeping the surface of the leather non-greasy.

### **APPLICATION :**

- > **PARA SYNTHOIL LIQUOR SPO** can be recommended for fatliquoring all types of leather, especially for softy upper, Nappa, lining, aniline buff calf, glazed kid upper, Garment or bag leathers.

### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. Under extreme climatic conditions this product may separate slightly. So it should always be well stirred prior to use.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTHOIL UFBW**

**A versatile fatliquor for White & Very Soft Leathers  
Similar to Chormopol UFBW (TFL)**

**PARA SYNTHOIL UFBW** produces a fat liquoring effect very similar to fatliquoring products based on natural sperm oil.

### **SPECIFICATIONS :**

Appearance	: Yellow Brown Free Flowing Liquid
Chemical Character	: Sulphonated Ester
pH of 10% soln.	: 6.0 ~ 7.0
Active Matter	: 60% $\pm$ 2
Ionic Charge	: Anionic
Stability	: Stable to hard water, natural salts, acids, alkalies as well as to vegetable, synthetic and mineral tanning agents.

### **ADVANTAGES :**

- > **PARA SYNTHOIL UFBW** imparts required degree of inner softness and fullness without making the grain loose in a typical manner of natural sperm oil.
- > **PARA SYNTHOIL UFBW** is suitable in particular for fat liquoring chrome leathers of top quality.
- > **PARA SYNTHOIL UFBW** possesses excellent light fastness and has no effect on aniline dyes.
- > **PARA SYNTHOIL UFBW** has a strong emulsifying power and is ideal for any quality leather. Desired softness can be achieved making the leather light in weight.
- > **PARA SYNTHOIL UFBW** is recommended for gloving and clothing leathers where both softness and surface feel are essential.

### **APPLICATION :**

- > **PARA SYNTHOIL UFBW** can be recommended for fatliquoring all types of leather, especially for softy upper, Nappa, lining, aniline buff calf, glazed kid upper, Garment or bag leathers.

### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. Under extreme climatic conditions this product may separate slightly. So it should always be well stirred prior to use.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTHOIL LIQUOR ASN**

**A fully synthetic fatliquor based on saturated hydrocarbons  
Similar to Vernol Liquor ASN (CLARIANT)**

**PARA SYNTHOIL LIQUOR ASN** is a fully synthetic lubricant having excellent light fastness, ideally suited for fatliquoring of variety of leathers based on cow, buffalo, cow and buff calf, goat and sheep.

### **SPECIFICATIONS :**

Appearance	: Clear light brown free-flowing liquid.
Chemical Character	: Anionic synthetic fat liquor based on aliphatic hydrocarbons.
pH of 10% soln.	: 6.5 ~ 7.5
Active Matter	: 65%

### **ADVANTAGES :**

- > **PARA SYNTHOIL LIQUOR ASN** gives extremely fine disperse emulsions capable of deep penetration into the leather. It has good emulsifying capacity and improves the stability and homogeneity of fatliquoring emulsions.
- > **PARA SYNTHOIL LIQUOR ASN** is stable to hard water, weak acids and alkalies.
- > **PARA SYNTHOIL LIQUOR ASN** possesses excellent light fastness and has no effect on anionic dyestuffs.
- > **PARA SYNTHOIL LIQUOR ASN** is a unique product which penetrates well inside the leather cross-section within a short span of time. It makes leather uniformly soft and supple.
- > **PARA SYNTHOIL LIQUOR ASN** avoids formation of spews on the leather surface.

### **APPLICATION :**

- > **PARA SYNTHOIL LIQUOR ASN** can be recommended for fatliquoring all types of leathers i.e. Nubuck, suede, gloving softly, upper, Garment leather from cow, sheep, goat skins. Efficiency of **PARA SYNTHOIL LIQUOR ASN** is not at all hampered when it is blended with other fatliquors.

### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. Under extreme climatic conditions this product may separate slightly. So it should always be well stirred prior to use.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTH 1104 MQ** **Synthetic, Light Fast Fatliquor** **Similar to Odionol MQ (TEXAPEL)**

**PARA SYNTH 1104 MQ** is a fully synthetic lubricant having excellent light fastness, ideally suited for fatliquoring of variety of leathers based on cow, buffalo, cow and buff calf, goat and sheep.

### **SPECIFICATIONS :**

Appearance	: Clear yellow coloured liquid.
Chemical Character	: Anionic
pH of 10% soln.	: $7.5 \pm 1$
Active Matter	: $60\% \pm 1$
Stability	: Stable to electrolytes in usual concentrations. Emulsion stability is excellent even in hard water.
Compatibility	: Compatible with anionic dyes, fatliquors as well as synthetic and vegetable tanning agents.
Dissolution	: Easily emulsifiable in hot or cold water.
Fastness to Light	: Good

### **ADVANTAGES :**

- > **PARA SYNTH 1104 MQ** is highly penetrative fatliquor which imparts excellent softness to leather. It also provides pleasant handle and smoothness to the leather surface.
- > **PARA SYNTH 1104 MQ** imparts required degree of softness and fullness without making the grain loose.
- > **PARA SYNTH 1104 MQ** is designed specially for the sophisticated class of leather which require soft feel with light weight.

### **APPLICATION :**

- > **PARA SYNTH 1104 MQ** is suitable for all types of leather, specially to make softy upper, lining, D.D. without looseness.
- > **PARA SYNTH 1104 MQ** is specially suitable for Nubuck, Garment, Nappa, drymill, Upholstery, etc. as it gives excellent softness with light weight.

### **PACKING & SHELF LIFE :**

**PARA SYNTH 1104 MQ** can be stored for about one year under normal conditions and temperatures. The product should always be stirred before use as a precautionary measure due to temperature changes.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTH OSL**

**Fatliquor for Garments and Nappas**  
**Similar to Trupon OSL (Trumpler)**

### **SPECIFICATIONS :**

Appearance	: Red Brown , Slight Viscous Liquid
Active Matter	: 90% $\pm$ 2
pH of 10% soln.	: 7.0 $\pm$ 0.5
Light fastness	: Excellent
Charge	: Anionic / Nonionic
Stability	: Stable to electrolytes in usual concentrations.
Heat Yellowing	: Medium

### **ADVANTAGES :**

- > **PARA SYNTH OSL** is ideal fatliquor for producing light , fluffy clothing and softy leathers.
- > **PARA SYNTH OSL** is suitable in particular for fat liquoring chrome leathers of top quality.
- > **PARA SYNTH OSL** helps for uniform distribution and absorption of syntans, dyes and other chemicals which are added subsequently.

### **PACKING & SHELF LIFE :**

**PARA SYNTH OSL** Storage should be away from extreme conditions. Under extreme climatic conditions this product may separate slightly. So it should be always well-stirred immediately prior to use. Storage life is about one year under normal conditions and temperatures.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTH E-A1**

**Synthetic Fatliquor for all type of skins**

**Similar to Lipoderm Liquor E-A1 (BASF)**

### **SPECIFICATIONS :**

Appearance	: Light yellow brown opalescent viscous liquid
Chemical Character	: Blend of high molecular sulphited synthetic esters, solvent & long chain alkanes.
pH of 10% soln.	: $8.0 \pm 0.5$
Active Matter	: 75%
Stability	: Stable at normal pH conditions to neutral salts, bases, acids & mineral salts at concentrations normally used in tanneries.
Compatibility	: Compatible with anionic dyes, fatliquors as well as synthetic & vegetable tanning agents.
Dissolution	: Before adding to the floats, dilute with warm water until obtaining fluid consistency.
Fastness to Light	: Good

### **ADVANTAGES :**

- > **PARA SYNTH E-A1** is a light fast fat liquor based on synthetic sulphited esters, solvent and long chain alkanes.
- > **PARA SYNTH E-A1** is highly penetrative fatliquor with high fat content and imparts excellent softness and body to leather.
- > **PARA SYNTH E-A1** is an ideal fatliquor in the sense, besides giving the uniform lubrication it also paves the way for the uniform distribution and absorption of the syntans, dyes and the other chemicals which are added subsequently.
- > **PARA SYNTH E-A1** imparts full and soft feel to the leather without excess fatliquoring and gives very warm and pleasant feel to the leather surface. It also imparts good smoothness to the leather surface.

### **APPLICATION :**

- > **PARA SYNTH E-A1** is ideally suited for light weight leathers viz. Nappas, gloving and clothing leathers.
- > **PARA SYNTH E-A1** can be best applied immediately after neutralisation at an offer of 1 to 3% for light weight leathers, followed by normal retannage & fatliquoring. It redistributes natural fat present in leather.
- > **PARA SYNTH E-A1** can be recommended for all types of leather, especially for shoe uppers, Nubuck leathers, glazed kid goat uppers, Garment or bag leathers and all types of suedes.

### **PACKING & SHELF LIFE :**

**PARA SYNTH E-A1** can be stored for about one year under normal conditions and temperatures. The product should always be stirred before use as a precautionary measure due to temperature changes.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTH BZU**

**Anionic fatliquor for all types of leather and furs**

**Similar to Edolan BZU (TEXAPEL)**

### **SPECIFICATIONS :**

Appearance	: Off White Liquid.
Chemical Character	: Synthetic Sulphited ester.
pH of 10% soln.	: 7.0 ± 0.5
Active Matter	: 65%
Ionic Charge	: Anionic
Stability	: Stable in presence of electrolytes.

### **ADVANTAGES :**

- > **PARA SYNTH BZU** gives extremely fine disperse emulsions capable of deep penetration into the leather. It has good emulsifying power.
- > **PARA SYNTH BZU** possesses excellent light fastness and has no effect on aniline dyes.
- > **PARA SYNTH BZU** makes leather uniformly soft, supple and stretchy.
- > **PARA SYNTH BZU** imparts glaze and sheen to suedes.
- > **PARA SYNTH BZU** is a unique fatliquor for furs. It does not make hair (fur) greasy.
- > **PARA SYNTH BZU** can be used in pickle, tanning, retanning and fatliquoring for all types of skins and fur.

### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. It is always advantageous to stir well before use.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTH 1094** **Synthetic Oil, Sulphited Ester Based**

### **SPECIFICATIONS :**

Appearance	: Brown liquid.
pH of 10% soln.	: 6.5 ± 1
Active Matter	: 70% ± 2
Fastness to Light	: Excellent

### **ADVANTAGES :**

- > **PARA SYNTH 1094** is an ideal fat liquor for all type of soft leathers.
- > **PARA SYNTH 1094** imparts velvet, round feel to the leather surface.
- > **PARA SYNTH 1094** Possesses excellent light fastness and helps in uniform dyeing.
- > **PARA SYNTH 1094** has a strong emulsifying power and is ideal for sophisticated class of leather which require soft feel with light weight .

### **APPLICATION :**

- > **PARA SYNTH 1094** is specially suitable for Garment, Nappa drymill, Upholstery, Nubuck ,etc.as it gives excellent softness with light weight.

### **PACKING & SHELF LIFE :**

**PARA SYNTH 1094** can be stored for about one year under normal conditions and temperatures. The product should always be stirred before use as a precautionary measure due to temperature changes.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## PARA SYNTH PEB Synthetic, Light Fast Fatliquor

### SPECIFICATIONS :

Appearance	: Clear Yellow coloured liquid
Chemical Character	: Phosphoric Ester Base
Ionic Charge	: Anionic
pH of 10% soln.	: $7.5 \pm 1.0$
Active Matter	: $60\% \pm 1$
Stability	: Stable to electrolytes in usual concentrations. Emulsion stability is excellent even in hard water.
Compatibility	: Compatible with anionic dyes, fatliquors as well as synthetic & vegetable tanning agents.
Dissolution	: Easily emulsifiable in hot or cold water
Fastness to Light	: Good

### ADVANTAGES :

- > **PARA SYNTH PEB** is highly penetrative fatliquor with high fat content and imparts excellent softness and body to leather. It also provides pleasant handle and smoothness to the leather surface.
- > **PARA SYNTH PEB** imparts required degree of softness and fullness without making the grain loose.
- > **PARA SYNTH PEB** is designed specially for the sophisticated class of leather which requires soft feel with light weight.

### APPLICATION :

- > **PARA SYNTH PEB** is ideally suited for light & soft leathers viz. Nappas, Nubuck, Garment, Drymill, Upholstery etc.
- > **PARA SYNTH PEB** is suitable for all types of leathers specially to make softy upper, lining, D.D. without looseness.

### PACKING & SHELF LIFE :

**PARA SYNTH PEB** can be stored for about one year under normal conditions and temperatures. The product should always be stirred before use as a precautionary measure due to temperature changes.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTH PW**

### **Anionic Synthetic Fatliquor Based on Paraffin Wax**

#### **SPECIFICATIONS :**

Appearance	: Viscous Light Reddish Brown Liquid
Chemical Character	: Paraffin Wax
Ionic Charge	: Anionic
pH of 10% soln.	: $7.0 \pm 1.0$
Active Matter	: $75\% \pm 1$
Stability	: Stable to Acid, Alkalies and hard water

#### **ADVANTAGES :**

- > **PARA SYNTH PW** is compatible with like charged fatliquors and retanning agents. It is also compatible with Non-Ionic products.
- > **PARA SYNTH PW** has high penetrating power and high degree of softness.
- > **PARA SYNTH PW** imparts fullness and waxy feel to leather surface.

#### **APPLICATION :**

- > **PARA SYNTH PW** can be recommended for fat liquoring of all types of leather. It is suitable for Nappa, Nubuck, Suede, Glove, Cow upper, Sheep and Goat lining.
- > **PARA SYNTH PW** is specially suitable for Industrial Gloving leathers.

#### **PACKING & SHELF LIFE :**

**PARA SYNTH PW** should be away from extreme conditions. Under extreme climatic conditions this product may separate slightly. So it should be always well stirred prior to use. Storage life is about one year under normal conditions and temperature.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTH SAF**

**Anionic Synthetic Fatliquoring Agent  
Similar to Lipoderm Liquor SAF (Clariant)**

### **SPECIFICATIONS :**

Appearance	: Brown Paste
Chemical Character	: Anionic Synthetic with Special handle improving additives
Ionic Charge	: Anionic
pH of 10% soln.	: 8.0 ± 1.0
Active Matter	: 80% ± 1
Stability	: Stable at normal pH conditions to neutral salts, bases, acids and mineral salts at concentration normally used in tanneries.
Compatibility	: Compatible with anionic dyes, fatliquors as well as synthetic and vegetable tanning agents.
Dissolution	: Before adding to the floats, dilute with warm water until obtaining fluid consistency.

### **ADVANTAGES :**

- > **PARA SYNTH SAF** is light fast fatliquor based on synthetic sulphited esters.
- > **PARA SYNTH SAF** has high penetrating power and high degree of fat content and imparts waxy feel, softness and body to the leather.
- > **PARA SYNTH SAF** is light fast and so its well suited for fatliquoring white and pale leathers.

### **APPLICATION :**

- > **PARA SYNTH SAF** can be recommended for fat liquoring of all types of leather. It is ideally suited for fatliquoring high quality leathers like Softy, Nappa, Suede and Aniline. It is also suited for gloving and clothing leathers.

### **PACKING & SHELF LIFE :**

**PARA SYNTH SAF** can be stored for about one year under normal conditions and temperatures. The product should always be stirred before use as a precautionary measure due to temperature changes.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTHOL SAS**

### **Electrolyte & Acid stable synthetic fatliquor**

#### **SPECIFICATIONS :**

Appearance	: Light yellow viscous liquid.
Chemical Character	: Combination of synthetic oils with surface active agents.
Active Matter	: 50% approx.
Ionic Charge	: Anionic
Stability	: Stable to all electrolytes, acids & syntans at usual concentrations.

#### **ADVANTAGES :**

- > **PARA SYNTHOL SAS** generally improves the leather quality. This electrolyte stable product is used in the pickle and chrome tannage. Due to high amount of special emulsifiers, a pronounced wetting and levelling action can be achieved, thus giving a quicker and more even absorption and reaction of the pickling and tanning materials.
- > **PARA SYNTHOL SAS** gives an outstanding softening and lubricating effect.
- > **PARA SYNTHOL SAS** improves chrome uptake in rechroming without roughness of grain.
- > **PARA SYNTHOL SAS** can be emulsified in hot or cold water. Due to its good solubility it can be added directly to the drum without dilution.

#### **APPLICATION :**

- > **PARA SYNTHOL SAS** can be recommended for fatliquoring all types of leathers i.e. Nubuck, suede, glove, cow upper, sheep and goat lining and clothing Nappa leather.

#### **PACKING & SHELF LIFE :**

12 months when properly stored.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTHOL CLWN**

**Versatile Synthetic Fatliquor**  
**Similar to Sulphirol CLWN (Smit & Zoon)**

### **SPECIFICATIONS :**

Appearance	: Clear Amber Liquid.
Chemical Character	: Anionic fatliquor based on fatty ester and sulphited fish oil.
pH of 10% soln.	: 8.0 approx
Active Matter	: 80% $\pm$ 2
Stability	: Excellent
Light Fastness	: Good

### **ADVANTAGES :**

- > **PARA SYNTHOL CLWN** has a strong emulsifying power and is ideal for all types of leather.
- > **PARA SYNTHOL CLWN** imparts required degree of softness and fullness without making the grain loose and also imparts a pleasing handle and suppleness to the leather .

### **APPLICATION :**

- > **PARA SYNTHOL CLWN** can be recommended for fat liquoring all types of leather, especially for softy upper, Nappa, Garment or Upholstery.

### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. Under extreme climatic conditions this product may separate slightly. So it should always be well stirred prior to use.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SYNTH MK**

**Similar to Coripol MK (TFL)**

**PARA SYNTH MK** is a weakly anion-active fatliquor for suedes, gloving and clothing leather as well as for chrome-upper leather.

### **SPECIFICATIONS :**

Appearance	: White Viscons Liquid
Chemical Character	: Weakly Anion-Active
pH of 10% soln.	: 6.5 ~ 7.0
Active Matter	: 50% $\pm$ 2
Ionic Charge	: Anionic
Stability	: Good to acids, salts and hard water.
Compatibility	: Compatible with anion-active non-ionic and weakly cation-active products.
Light Fastness	: Good

### **ADVANTAGES :**

- > **PARA SYNTH MK** has good levelling property without bleaching the shades of dyed leathers.
- > **PARA SYNTH MK** has good fixation properties and excellent fastness to light.
- > **PARA SYNTH MK** gives full and soft handle to the leather.

### **APPLICATION :**

- > **PARA SYNTH MK** can be used for pre-fatliquoring of full-chrome and semi-chrome clothing suedes.
- > **PARA SYNTH MK** can be used for suedes and gloving leather and can also be used for light fast white Nubucks.

### **PACKING & SHELF LIFE :**

Storage should be away from extreme conditions wherever possible. It is always advantageous to stir well before use.

Color of the product may vary due to its characteristic, however it will not affect overall property of the leather. Need to stir / mix well before using. This information is given on good faith, solely for the guidance of the customer. We do not give any guarantee of results and assure no obligation or liability arising out of use of information given herein.

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## **PARA SOFT GSIN**

**Cationic Fatliquor of high light fastness and stability to electrolytes**

**Similar to Catalix GSIN (CLARIANT)**

**PARA SOFT GSIN** is a weakly cation-active fatliquor which is very versatile in application because of its high electrolyte stability.

### **SPECIFICATIONS :**

Appearance	: White soft paste.
Chemical Character	: Fatty acid condensation product.
pH of 10% soln.	: 4.0 ~ 5.0
Ionic charge	: Cationic
Light fastness	: Very good
Stability	: Stability to solutions of acids and salts very good but restricted to solutions of alkalis.
Dilutability and Compatibility	: Readily emulsifiable in water at 50° C and further dilution can be done by cold water. Compatible with nonionic, cationic & weakly anionic substances. Emulsion is stable in hard water also.

### **ADVANTAGES :**

- > In chrome tanning to give rapid, uniform through-tanning, and for its lubricating properties.
- > As the main fatliquor for chrome tanned suede leather.
- > As a top fatliquor for grain leathers. It enhances both softness and fullness and gives the leather, especially when used as a top fatliquor, a smooth, pleasing handle.

### **APPLICATION :**

Because of its high electrolyte stability, **PARA SOFT GSIN** can be used without difficulty even in liquors with a high electrolyte content.

#### **In chrome tannages**

- > **PARA SOFT GSIN** promotes the distribution of the chrome and accelerates thorough tanning thus increasing the softness and fullness of the leather. It also acts as a lubricant and prevents thin leathers from becoming entangled when tanning at short liquor ratios.

The product is added at beginning of the tanning process or even in the pickle.

Amounts : Grain leather 0.2-0.5% **PARA SOFT GSIN** Suede leather 0.5-1.5% on the pelt weight.

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#### **In the main or preliminary fatliquoring of suede leather**

- > An excellent, uniform, thorough fatliquoring effect is achieved with **PARA SOFT GSIN**. It gives the leather a soft, full handle and trouble-free buffing properties. It is advisable to add the product before neutralising or together with a retannage, if given. If a more pronounced surface fatliquoring is required, e.g. to produce a two-way nap effect, **PARA SOFT GSIN** can be super-fatted by adding raw oils such as neatsfoot oil, sperm oil, etc. to form an emulsion. This is best carried out before neutralisation or in conjunction with any chrome retannage.  
Amounts : 2-4% **PARA SOFT GSIN** on shaved weight + 0.3% neutral oil.

#### **As a top fatliquor for grain leathers**

- > **PARA SOFT GSIN** is best added as a supplement to anionic fatliquoring baths to give complete bath exhaustion and to reinforce the fixation of the anionic fatliquors. The leathers are given a slightly greasy, pleasant handle, the grain elasticity is increased and the absorbency reduced.  
Amounts : 0.3-0.5% **PARA SOFT GSIN** on shaved weight

#### **Handle modifications for finished grain leather**

- > For a silky, slightly greasy handle **PARA SOFT GSIN** can be sprayed as a top finish on finished grain leather. Depending on the desired effect, solutions of roughly 10% concentration are used for this purpose. If deeper penetration is required, about 30-100 gms/litre isopropyl alcohol should be added to the solution.

#### **For upgrading of defective leathers**

- > Corrected grain leathers are given a pad coat with a 10% solution of **PARA SOFT GSIN** which helps in sealing the defects and thereby improves the film formation of the subsequent pigment coats. Sealing coat is to be adjusted to the desired effect using about 30-100 gms./litre isopropyl alcohol to take care of the adhesion of the subsequent coats.

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## **PARA SYNTH BA** **Lecithin Based Fatliquor**

### **SPECIFICATIONS :**

Appearance	: Beige Paste
Chemical Character	: Combination of Natural Phospholipids (Soya Lecithin) with Softners.
Active Matter	: 50% $\pm$ 1
pH of 10% soln.	: 5.5 % $\pm$ 1
Solubility	: Soluble in water in any proportion, with clear solution
Stability	: Good in Anionic conditions. Stable to Neutral Salts, Bases and Acids.
Compatibility	: Compatible with Synthetic and Vegetable Tanning Agents as well as Anionic Dyestuffs.

### **ADVANTAGES :**

- > **PARA SYNTH BA** is an excellent weight Fatliquor with extreme inner softness.
- > **PARA SYNTH BA** imparts very good even softness throught the leather but doesnot lossen the grain on high level of usage.
- > **PARA SYNTH BA** is recommended to get good softness for producing Garment, Upholstery and Soft Suede with a silky touch.

### **APPLICATION :**

After Neutralisation ( % Based on Shaved Weight )

Garment Leather	: <b>PARA SYNTH BA</b> 3.0 ~ 4.0 %
Upholstery Leather	: <b>PARA SYNTH BA</b> 4.0 ~ 5.0 %
Upper Leather	: <b>PARA SYNTH BA</b> 2.0 ~ 4.0 %
Suede Leather	: <b>PARA SYNTH BA</b> 2.0 ~ 4.0 %

### **PACKING & SHELF LIFE :**

**PARA SYNTH BTU** can be stored for about one year under normal conditions and temperatures. The product should always be stirred before use as a precautionary measure due to temperature changes.

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## **PARA SYNTHOIL NFB** **Concentrated Lightfast Synthetic Fatliquor**

### **SPECIFICATIONS :**

Appearance	: Brown Coloured Clear Liquid
Chemical Character	: Saturated Hydrocarbons
Active Matter	: 80% $\pm$ 1
Charge	: Anionic
pH of 10% soln.	: 7.5 % $\pm$ 0.5
Solubility	: Soluble in water in any proportion, with clear solution
Stability	: Good in Anionic conditions.

### **ADVANTAGES :**

- > Due to formation of Micro Emulsion in Aquous solution, it penetrates deeply and uniformly throughout the entire cross section of leather giving uniform internal softness.
- > It's excellent light fastness makes it suitable for White, Pastel and Aniline Leather.
- > It is compatible with other oils such as Fish Oil, Vegetable Oils etc. and owing to its high emulsifying power, it helps in emulsification of other oils when used in combination.

### **APPLICATION :**

After Neutralisation ( % Based on Shaved Weight )

Sogty side Leather	: <b>PARA SYNTHOIL NFB</b> - 3.0 ~ 6.0 % on shaved weight
Cow Nappa	: <b>PARA SYNTHOIL NFB</b> - 5.0 ~ 5.5 % on shaved weight
White Goat / Sheep Skin	: <b>PARA SYNTHOIL NFB</b> - 6.0 ~ 8.0 % on shaved weight
Buff Upholstery	: <b>PARA SYNTHOIL NFB</b> - 8.0 ~ 10.0 % on shaved weight

### **PACKING & SHELF LIFE :**

**PARA SYNTH BTU** can be stored for about one year under normal conditions and temperatures. The product should always be stirred before use as a precautionary measure due to temperature changes.

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## PARA SYNTHOIL KLB

### Sulfosuccinate based Emulsifier for Fatliquors

#### SPECIFICATIONS :

Appearance	: Light Yellow Viscous Liquid
Chemical Character	: Sulfosuccinate
Active Matter	: 51% $\pm$ 1
pH of 10% soln.	: 7.00 % $\pm$ 1.0
Stability	: Due to extreme climatic storage conditions there may be Layer separation. Hence through mixing is recommended for sampling and taking into production or formulation.

#### PROPERTIES AND PREPARATION OF PRODUCTS :

- > The above base is based on Coco Diethanolamide sulfosuccinate sodium salt.
- > The base will give very good light fastness to the leather.
- > Being an amide based sulfo succinate it will impart very softness to the leather along with good feel and light weight.
- > It can be used around 10 ~ 20% on the total weight of the fat in any formulation to get the properties of the above base. By using hard water stability will also be improved or it will make the fat liquor emulsion more stable in the tanning bath.
- > Fat Liquor with very good softening properties can be made by mixing 15% ~ 18% of the above base with 25% ~ 20% SCPW ( Sulpho Chlorinated Paraffin Wax ) along with small percentage of non ionic or anionic surfactants along with 2% ~ 3% Glycol Ethers OR Hexylene Glycol. The resultant product will be limpid in nature & very suitable for Softy articles.
- > **Note** : When the base is used in synthetic formulation lot of foam will be observed during drumming, to avoid excess foaming 0.05 ~ 0.1% of good Silicon Defoamer from Tego or similar company has to be incorporated in the formulations.

#### POSSIBLE BLENDS :

- > Can be used with SCPW ( Sulpho Chlorinated Paraffin Wax ) to produce Synthetic Fatliquor.
- > Can be blended with Bi-Sulphited Fish Oil to make Fish Oil based Odorless Fatliquor.
- > Can be blended with Lecithin to produce Lecithin based Fatliquor.
- > Can be used along with Sulphited Vegetable Oil to produce Semi Synthetic Fatliquor.
- > There can be many other combination being originated from Neutralized SCPW ( Sulpho Chlorinated Paraffin Wax ).

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