



**ABBAD CHEM**  
SUSTAINING INNOVATIONS

# ABBAD CHEM

LEATHER CHEMICALS - NATURALLY

Specialty leather chemicals that are sustainable and eco-friendly in aspect and designed to meet the demands of high-quality leather production.



INSPIRED BY LEATHER

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SUSTEM AW-M is a mercapto based anti-wrinkle agent

## PROPERTIES

Chemical Composition	:	Mercapto with molasses
Appearance	:	Brown to red brown liquid
pH(10% Solution)	:	10.0
Charge	:	—

## FEATURES

SUSTEM AW-M is sulphide-free.

SUSTEM AW-M reduces lime swelling.

SUSTEM AW-M accelerates the diffusion of liming chemicals.

SUSTEM AW-M increases area yield and improves the quality.

SUSTEM AW-M improves scud-loosening.

## APPLICATION

Soaking with soaking agent may be followed by a hair-pulping low-sulphide liming, prepared with 1.0 - 2.0 % SUSTEM AW-M on salted weight. The quantity of SUSTEM AW-M depends on the desired degree of sodium sulphide or sodium hydrosulfide reduction in the lime. Larger quantities result in a higher yield in area and improved quality. Apart from SUSTEM AW-M the lime float contains lime, sodium sulphide and/or sodium hydrosulfide and caustic soda solution or soda ash for controlled swelling. For low-sulphide processes, floats of max. 150 %, on salted weight should be used.

## STORAGE / SHELF LIFE

SUSTEM AW-M can be stored for 6 months under normal conditions. It can be stored for about 2 years (from date of production) if kept between 10°C and 35°C. In any case, protect from cold below -10°C and from heat above 40°C. If exposed to the cold, bring in to a warm place and stir before use.

Always stir before use.

## PACKAGING

120 Kgs Drum



SUSTEM DG is a NPE, APEO, solvent free high performance degreasing agent

## PROPERTIES

Chemical Composition	:	Bio-degradable, solvent free surfactants
Appearance	:	Clear & Colorless Liquid
pH(10% Solution)	:	6.0 - 8.0
Charge	:	Non Ionic

## FEATURES

SUSTEM DG has got very strong degreasing effect on extremely fatty skins and hides. SUSTEM DG is very efficient on delimed and bated pelts, pickled pelts and even on chrome tanned leathers. SUSTEM DG removes fat spew problem by reducing free fatty acid content in leather. SUSTEM DG facilitate the penetration of tanning and post tanning chemicals.

## APPLICATION

SUSTEM DG can be used in the pre-tanning and post-tanning processes.

Soaking	:	0.15 - 0.25% (% on raw weight)
Liming	:	0.15 - 0.25% (% on raw weight)
Bating & Degreasing	:	0.30 - 1.50% (% on limed pelt weight)
Rechroming	:	2.0 - 4.0% (% on wet blue weight)

## STORAGE / SHELF LIFE

The product is stored between 15°C and 35°C, the product has a shelf life of 12 months. Special care should be taken to close the drums after use.

## PACKAGING

120 Kgs Drum



SUSTEM DI is a nonionic washing and dispersing agent

## PROPERTIES

Chemical Composition	: Mixed Ethoxylates
Appearance	: Clear & Colorless Liquid
pH(10% Solution)	: 6.0 - 7.5
Charge	: Non Ionic

## FEATURES

SUSTEM DI is an excellent fat stabilizing cum wet-blue cleaning agent. When used in the main fatliquoring, SUSTEM DI improves the dispersion of the fat very effectively. As a result, the overall softness is increased.

Due to its chemical nature, the undesirable precipitation of the fatliquor is avoided by the usage of SUSTEM DI.

SUSTEM DI also improves the tensile strength of the leather when used in pickling (before the acid addition).

SUSTEM DI helps to improve the wetting back of dried wet-blue considerably.

## APPLICATION

SUSTEM DI is added in various stages of processing, like: soaking, liming, pickling, degreasing, wetting back and fatliquoring.

Soaking	: 0.1 - 0.3% (% on raw weight)
Liming	: 0.1 - 0.3% (% on raw weight)
Main Fatliquoring	: 0.3 - 0.5% (% on Shaved Wetblue Weight)
Wetting Back	: 0.4 - 0.6% (% on Shaved Wetblue Weight)
Wetting Back	: 1.0 - 3.0% (% on Dried Wetblue Weight)

## STORAGE / SHELF LIFE

SUSTEM DI can be stored for 12 months under normal conditions.

## PACKAGING

120 Kgs Drum



SUSTEM WT is a NPEO/APEO free wetting agent

## PROPERTIES

Chemical Composition	: Alkyl Ether Sulphonates
Appearance	: Clear free flowing liquid
pH(10% Solution)	: 7.0 - 7.5
Charge	: Non Ionic

## FEATURES

SUSTEM WT is a versatile NPEO/APEO free, highly effective and economical soaking, wetting and degreasing agent.

SUSTEM WT enhances the dehydration of dried hides and skins. It facilitates the removal of unwanted protein and impurities.

SUSTEM WT reduces the surface tension between the natural fat and water resulting in dissolution and removal of natural fat. This product is mainly recommended for degreasing skins with high natural fat.

SUSTEM WT helps in reducing the backbone mark to a very large extent.

## APPLICATION

A small percentage of SUSTEM WT is also recommended to be used in wetting back / acid wash stages.

SUSTEM WT can be used along with other degreasing agent.

DOSAGE : 1.0% – 3.0% as per the requirement.

## STORAGE / SHELF LIFE

SUSTEM WT has a shelf life of 12 months if stored in a dry and cool place in closed containers.

## PACKAGING

60 Kgs Drum



SUSTEM PP is a polyphosphate tanning agent with water softening properties

## PROPERTIES

Chemical Composition	: Polyphosphate
Appearance	: White powder
pH(10% Solution)	: 8.5 - 9.5
Charge	: —

## FEATURES

SUSTAN PP can be used in rapido tanning to pre-prepare pelts allowing for more efficient and quicker tanning

SUSTEM PP can be used for better levelness of dyestuffs during dyeing

SUSTEM PP helps to penetrate the dyestuffs

SUSTEM PP will give excellent dispersing property on natural fat and fatliquor

## APPLICATION

SUSTEM PP can be used in the lime pit, deliming, neutralization, retannage and fatliquoring of all types of leathers.

## STORAGE / SHELF LIFE

SUSTEM PP has a shelf life of 12 months if stored in a dry and cool place in a sealed pack.

## PACKAGING

25 Kgs Bag





SUSTICIDE BP is a biodegradable bactericide, free from pentachlorophenol and similar toxic products, specially formulated to prevent any bacterial development during the beam house process on any kind of raw material like green, salted, or dry

## PROPERTIES

Chemical Composition	: Sodium dimethyldithiocarbamate
Appearance	: Yellow - green liquid
pH(10% Solution)	: 11.0 - 13.0
Charge	: Non Ionic

## FEATURES

SUSTICIDE BP can be used for curing raw material to control the growth of halophilic bacteria and any other types of bacteria as well.

In soaking, SUSTICIDE BP is compatible with all enzyme soaking systems and also conventional systems and allows any suitable soaking duration.

In Liming, SUSTICIDE BP avoids the scuff grain due to bacterial damage.

SUSTICIDE BP can also be used for the preservation of finishing products based on casein.

## APPLICATION

Soaking of fresh salted hides and skins	:	0.1 – 0.2% SUSTICIDE BP on fresh salted weight 0.05 to 0.1 gram per litre of water (ratio 1:2)
Soaking of dry hides and skins	:	0.2 – 0.4% SUSTICIDE BP on dry weight or 0.3 to 0.6 gram per litre of water (ratio 1:6)

## STORAGE / SHELF LIFE

If SUSTICIDE BP is stored between 15°C and 40°C, the product has a shelf life of 18 months. Special care should be taken to close the drums after use.

## PACKAGING

30 Kgs Drum



SUSTICIDE 30 is a highly effective fungicide that also possesses good bactericidal and algicidal properties

## PROPERTIES

Chemical Composition	: Thiocyanomethylthiobenzothiazole
Appearance	: Brown liquid
pH(10% Solution)	: 6.5 - 7.5
Charge	: Non Ionic

## FEATURES

SUSTICIDE 30 is used in the processing of leather where fungal attack is a particular problem and long-term preservatives of wet hides and skins are required.

SUSTICIDE 30 is typically added during the pickling washing stages of hide processing to ensure early protection. The product can also be added during the tanning stage of leather production to impart long-lasting protection of leather throughout its life. The specially formulated blend of surface-acting agents in SUSTICIDE 30 ensures good penetration of the same into the substrate, an essential property for the long-term production of leather.

SUSTICIDE 30 contains about 30% TCMTB, an extensively broad-spectrum biocides.

SUSTICIDE 30 is easy to handle and does not contain any hydrocarbon solvents.

SUSTICIDE 30 is stable in both acidic and alkali media, thus its wide range of biocidal applications in the leather industry.

## APPLICATION

Before using, SUSTICIDE 30 should be diluted in 10 times its own weight of water.

SUSTICIDE 30 should not be added to solution or hides/skins when the pH is above 8.

To avoid mould growth and spores, add 0.08% SUSTICIDE 30 in retanning, dyeing or fatliquoring.

## STORAGE / SHELF LIFE

If SUSTICIDE 30 is stored between 15°C and 35°C, the product has a shelf life Of 18 months. Special care should be taken to close the drums after use.

## PACKAGING

25 Kgs Drum



SUSTICIDE FP is a preservative preventing fungal attack on hides and skins

## PROPERTIES

Chemical Composition	: Blend of complex organic compounds
Appearance	: Greenish to pale yellow paste
pH(10% Solution)	: 8.0 - 10.0
Charge	: Anionic

## FEATURES

SUSTICIDE FP is an effective and economical preservative preventing fungal attack on hides and skins during different steps of tannery operations and subsequent storage.

SUSTICIDE FP is a PCP-free organic preservative and is based on complex organic material having high penetrating and dispersing properties on hides and skins.

SUSTICIDE FP does not contain PCP (Penta chlorophenate) or any type of phenol-based compounds. Neither these products are part of the formulation nor does it contain these chemicals.

## APPLICATION

Dosage for preserving varies from 0.15% to 0.30%. The amount mentioned are guidelines and indications only. The actual quantity required for protection against mould/fungus depends on various factor like climate, structure of hide & skin, duration of storage, etc.

## STORAGE / SHELF LIFE

SUSTICIDE FP can be stored for 6 months under normal conditions. Special care should be taken to close the drums after use.

## PACKAGING

50 Kgs Drum



SUSTAN DA is a deliming agent based on acidic salts of polybasic-aromatic acids

## PROPERTIES

Chemical Composition	: Acidic salts of polybasic aromatic acids
Appearance	: White Powder
pH(10% Solution)	: 1.5 - 1.8
Charge	: ---

## FEATURES

SUSTAN DA speeds up the deliming process and gives leather a very fine, tight grain and superior fullness. Unlike conventional ammonium salts, it also releases the lime that is trapped in the capillaries.

It forms calcium salts that dissolve easily. Improves the cleaning of ground and other keratinous substances, which are released along with the water when the pelts contract. Produces full leather with a clean, smooth, tight, and fine grain.

SUSTAN DA is a non-swelling deliming agent recommended for rapid deliming of thick, unsplit and limed split pelts.

SUSTAN DA is suitable for all types of raw stock and for the production of all types of leather.

## APPLICATION

SUSTAN DA can be applied alone or in combination with other ammonium salts. We would recommend deliming cattlehide in a short float at approx. 30 °C. SUSTAN DA can be applied as a powder or it can be diluted in advance.

SUSTAN DA can be combined very effectively with the enzymatic bating agents. The bating agent is generally added at the end of the deliming process. The ideal pH value for this can be obtained by adding more SUSTAN DA.

## STORAGE / SHELF LIFE

SUSTAN DA can be stored for 6 months under normal conditions

## PACKAGING

25 Kgs Bag



SUSTAN BA is a magnesium oxide based basifying agent

## PROPERTIES

Chemical Composition	: Magnesium oxide
Appearance	: Light brown fine powder
pH(10% Solution)	: 9.0 - 9.5
Charge	: ---

## FEATURES

SUSTAN BA has a strong complexing action with basic chrome sulfate, so basifying action even at very low dosage.

SUSTAN BA, unlike sodium bicarbonate, does not give an erratic pH jump after feeding, so it helps in gradual pH rise and so gradual basification.

SUSTAN BA is not recommended at high dosages; otherwise, it will results in overbasification.

SUSTAN BA is used as mild deliming with buffering in nature, so it has less impact on grain while removing 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 soda bucarbonate to adjust pH; however, if it is left for some time, pH will automatically be achieved and tanning is obtained.

## STORAGE / SHELF LIFE

Has a shelf life of 12 months if stored under dry and cool conditions at ambient temperature.

## PACKAGING

25 Kgs Bag



SUSZYM AB is a versatile enzyme formulation that helps in the opening up of collagen fibers and cleans up scuds, yielding smooth, silky, and flaccid pelt

## PROPERTIES

Chemical Composition	: Bacterial proteases
Appearance	: Light brown color powder
pH(10% Solution)	: 7.0 - 7.5
Charge	: 25.0 – 40.0 C

## FEATURES

SUSZYM AB destroys and removes short hair, hair bulbs, pigments, sweat glands, and fat glands.

SUSZYM AB removes albumins, globulin, and mucoids from hides and skins.

SUSZYM AB improves feel, uniformity of color, and fineness of grain.

SUSZYM AB gives good air permeability, smooth texture, and fine grain with maximum stretch.

## APPLICATION

Goat Skins

Upper : 0.75 - 1.0

Nappa : 0.75 - 1.25

Sheep Skins

Upper : 0.4 - 0.5

Glove. : 1.0 - 1.5

Cattle Hides

Upper : 0.3 - 0.5

Nappa : 1.0 - 1.25

## STORAGE / SHELF LIFE

Has a shelf life of 10 months if stored under dry and cool conditions at ambient temperature.

## PACKAGING

25 Kgs Bag



SUSZYM AC is an acid protease derivative; this enzymatic compound is a part of our specially developed series of enzymes

## PROPERTIES

Chemical Composition	: Acid-Bating Agent-Enzyme
Appearance	: Yellowish powder
pH(10% Solution)	: 2.0 - 6.0
Charge	: ---

## FEATURES

SUSZYM AC is an acidic bating agent and can be used for second bating to improve the consistency of leather.

SUSZYM AC can be blended with other enzymes to create a complex enzymatic system.

For double face and fur, combining our enzymatic agent with a lipase-based agent can improve evenness, softness, and uniformity.

## APPLICATION

SUSZYM AC can improve the consistency of the leather for pickled and wet-blue hides and skins through second bating.

## STORAGE / SHELF LIFE

Has a shelf life of 6 months if stored under dry and cool conditions at ambient temperature.

## PACKAGING

25 Kgs Bag



SUSTAN PT is a pretanning syntan for all types of vegetable-tanned leather

## PROPERTIES

Chemical Composition	: Phenol formaldehyde condensation product
Appearance	: Off White Powder
pH(10% Solution)	: 3.0 - 4.0
Charge	: ---

## FEATURES

SUSTAN PT enhances subsequent vegetable tannage. It has a strong dispersing effect of vegetable extracts, which will then penetrate rapidly through the pelt.

SUSTAN PT is non-astringent and readily soluble. So, it may be added directly to delimed pelt through the drum.

The conditioning effect of SUSTAN-PT neutralizes the residual lime in the pelt and its buffering capacity allow the subsequent vegetable to penetrate more uniformly. SUSTAN-PT gives a strong pre-tanning effect, allowing subsequent vegetable tanning by classical process as well as by rapid process.

In addition, SUSTAN-PT reduces the possibility of copper and iron stains in subsequent vegetable tanning.

## APPLICATION

SUSTAN PT can be used in all stages for the production of any article.

2-4% For EI Tanning

2-3% Full Chrome Goat Lining

2-3% Full chrome Goat Upper

## STORAGE / SHELF LIFE

If SUSTAN PT is stored under dry and cool conditions, the products do not show any problem and has a shelf life of 6 months.

## PACKAGING

25 Kgs Bag



SUSTAN V SOLID is a natural condensed tanning agent

## PROPERTIES

Chemical Composition	: Blend of natural tannins
Appearance	: Dark Brown Solid
pH(10% Solution)	: 3.5 - 5.5
Charge	: ---

## FEATURES

SUSTAN V SOLID can be used in tanning and retanning of chrome-tanned and vegetable tanned leathers.

SUSTAN V SOLID can be used for getting a fine and short nap in split suede, goat and sheep suede, and nubuck leathers.

SUSTAN V SOLID will give excellent dye ability.

SUSTAN V SOLID can be used in shoe and belt articles where we need good grain tightness.

## APPLICATION

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## STORAGE / SHELF LIFE

If SUSTAN V SOLID is stored under dry and cool conditions, the product does not show any problem and has a shelf life of 2 years. Melting may appear above 250 °C.

## PACKAGING

25 Kgs Bag



SUSTAN GS is a soft wattle single bleached extract of high quality indicated for tannage of hides and skins whenever a very light color is required

## PROPERTIES

Chemical Composition	: Wattle extract
Appearance	: Brown hygroscopic powder, dedusted
pH(10% Solution)	: 4.0 - 4.5
Charge	: Anionic

## FEATURES

SUSTAN GS is soluble in tap and hot water, with the following characteristics on vegetable tannage:

- Fast and efficient penetration.
- Excellent yield.
- Very light color leathers.
- Good fixation.
- Nice beige tone.

For chrome leather tannage SUSTAN GS permits:

- Bellies and flank fillings.
- Better buffing properties.
- Excellent polish effect.
- To keep the embossing effect.

## APPLICATION

SUSTAN GS may be used alone or blended with other vegetable extracts. The following use is recommended:

Based on limed weight

25-30% for vachetta tannage (veg leather)

40-45% for sole tannage.

Based on shaved weight

5-15% for chrome leather tannage.

## STORAGE / SHELF LIFE

If SUSTAN GS is stored in original packaging in sealed condition at ambient temperature, the product has a shelf life of 12 months.

## PACKAGING

25 Kgs Bag



SUSTAN BT is a black vegetable tanning agent

## PROPERTIES

Chemical Composition	: Natural Vegetable derivatives
Appearance	: Yellowish Brown powder
pH(10% Solution)	: 3.5 - 5.0
Charge	: Anionic

## FEATURES

SUSTAN BT is based on a natural vegetable tanning agent. It has the tendency to give black color to the leathers. It can be used for any kind of article.

It has been suggested to use this product after neutralization of leathers. In retanning, it is used along with other retanning agents like syntans and vegetable tannins.

In general, for black-colored leathers, black dye cost would be higher than other chemicals. When we use his product in retanning, black dye consumption will get reduced, and subsequently, process cost will also get reduced.

SUSTAN BT will give a very fine and smooth grain to the leather; hence, it is also suitable for this type of article. Since it is the vegetable tanning material, it will also have good burnishability.

SUSTAN BT will give a good nap for the Nubuck and Suede article. Since it has tanning potentiality, it can be used along with vegetable tannin without rechrome from wet blue to dye for certain articles (lining).

## APPLICATION

3-10% used in various retanning stages.

## STORAGE / SHELF LIFE

The product has a shelf life of 12 months under cool and dry conditions when stored in its original, sealed packaging.

## PACKAGING

25 Kgs Bag



SUSTAN G50 is a gluteraldehyde tanning agent

## PROPERTIES

Chemical Composition	: Gluteraldehyde
Appearance	: Colourless to Yellow Liquid
pH(10% Solution)	: 3.0 - 4.0
Charge	: ---

## FEATURES

SUSTAN G50 improves softness and fullness, resistance to moisture, perspiration and alkalinity, and improves chrome utilization.

**CHROME TANNAGE:** Chrome alone will often not meet the desired leather property such as softness and moisture resistance. Use of SUSTAN G50 as retanning agents provides improvements in all of the above areas. In retanning of chrome, optimum softness is generally achieved with 3-4% SUSTAN G50.

**CHROME FREE TANNAGE:** SUSTAN G50 can be utilized in many ways to produce FOC leathers, a growing market especially for automotive leathers. SUSTAN G50 can be used in pretanning or retanning of chrome-free metal tannages as well as metal-free systems, including vegetable extracts and phenolic syntans. In these systems, SUSTAN G50 increases shrinkage temperature and provides a softener, fuller, more durable leather. The only limitation of SUSTAN G50 is the lack of light fastness.

## APPLICATION

SUSTAN G50 application rates vary depending upon the presence of other tanning agents and desired leather properties. However, a typical starting point is 2% active SUSTAN G50 on the weight of pickled or washed stock. SUSTAN G50 should be diluted with approximately equal parts water prior to addition to the tanning float. In order to maximize utilization of this product, the float should be minimized. Increasing the concentration improves absorption of the active ingredient and speeds up the tanning reaction. Controlling the pH during SUSTAN G50 addition is important to avoid drawn grain resulting from rapid tanning action. The reaction rate increases significantly with increasing pH. An initial pH of 2.5 to 4.0 is acceptable. At completion of tanning, the pH can be raised using typical alkaline materials such as MgO.

## STORAGE / SHELF LIFE

If SUSTAN G50 is stored in original packaging in sealed condition at ambient temperature, the product has a shelf life of 6 months. Special care should be taken to close the drums after use. Protect from moisture and sunlight.

## PACKAGING

30 Kgs Drum



SUSTAN OA is a polyfunctional aldehyde syntan for white leather

## PROPERTIES

Chemical Composition	: Mixture of poly functional aldehyde
Appearance	: Transparent liquid
pH(10% Solution)	: 6.0 - 8.0
Charge	: ---

## FEATURES

SUSTAN OA is a highly efficient self-tanning agent with reactive sequestering groups. The main advantage of this product is that it does not crosslink on its own during storage, as do conventional aldehyde tanning agents. It can be used in pre-tanning, tanning, and retanning. When used as a pre-tanning material during chrome tanning, it results in a fuller and smoother wet blue. When it is applied during vegetable tanning, the absorption of the vegetable tanning material is faster, and hence the grain surface is very smooth, unlike the normal EI-tanned leathers. When applied after chrome tanning but before fixation, the exhaustion is excellent, resulting in the round and smooth-grained wet blues. It is excellent for making chrome-free and white leathers. It raises the shrinkage temperature and is non-yellowing.

Additional advantages of using SUSTAN OA are considerable improvement of tear strength, increase in the depth of dyeing, and fur tanning where the optic and sheen of the fur are not reduced

## APPLICATION

Pre-tanning

% Based on Pelt Weight

For both chrome tanning and Vegetable tanning : 0.5 – 1.0 %

Chrome tanning / Chrome free tanning : 1.0 – 3.0 %

% Based on Shaved Weight

Re-tanning for White leathers : 1.0 – 2.0 %

Re-tanning for Regular process : 1.0 – 3.0 %

## STORAGE / SHELF LIFE

SUSTAN OA has a shelf life of 18 months if it is stored in its original sealed package. Important Note: Color may turn to yellow brown on aging. However, this will not affect the performance of the product.

## PACKAGING

120 Kgs Drum



SUSTAN PA is an aldehyde tanning agent free from free formaldehyde

## PROPERTIES

Chemical Composition	: Aliphatic Aldehyde
Appearance	: Colourless, clear to pale yellow turbid liquid.
pH(10% Solution)	: 6.0 - 7.0
Charge	: ---

## FEATURES

Disperse the natural fat.

In pre-tanning improves the penetration of chrome and vegetable tannins.

In retanning gives fullness and softness.

Improves grain resistance as well as perspiration resistance.

Along with fat liquor, it improves the softness of the leather.

Suitable for regular/double-layered sheep skins, where it helps filling of the grain without impairing softness.

## APPLICATION

During pretanning : 2-3% of SUSTAN PA on pelt wt.

During neutralization : 1-2% of SUSTAN PA on shaved wt.  
(before the addition of neutralizing agent)

During retanning : 2-3% of SUSTAN PA on shaved wt.  
(for the dyeing of rewetted crust leathers)

During Fatliquoring : 1.0-2.0 % on shaved wt.

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

50 Kgs Drum





SUSTAN FP is a protein filler with selective filling agents

## PROPERTIES

Chemical Composition	: Natural protein with selective filler
Appearance	: Light yellow powder
pH(10% Solution)	: $6.5 \pm 1.0$
Charge	: ---

## FEATURES

SUSTAN FP is deposited in the empty parts of the skin and between the grain and the reticular layer.

SUSTAN FP can be added to the chrome tannage, chrome-free tannage, or retannage to get the full, round handle with reduced number of growth marks and improved selection with smooth, fine, and firm grain to get better cutting value.

SUSTAN FP, when used in retanning, improves the tightness of fibers, and hence it imparts a short nap on suede and nubuck.

SUSTAN FP does not bleach the shades as it has its own receptivity to dyes.

## APPLICATION

Goat Suede	: 2.0%
Upper Leather	: 2.0%
Softy	: 2.0%

## STORAGE / SHELF LIFE

SUSTAN FP has a shelf life of 12 months if stored in a dry and cool place in closed containers.

## PACKAGING

25 Kgs bag



SUSTAN PS Synthetic replacement syntan based on sulphone, naphthalene for white leather

## PROPERTIES

Chemical Composition	: Based on Sulphone, Naphthalene condensate
Appearance	: Light Brown Powder
pH(10% Solution)	: 3.0 – 4.0
Charge	: Anionic

## FEATURES

SUSTAN PS improves the tightness, fullness, and smoothness and gives a high level of suppleness.

SUSTAN PS has a strong whitening effect and is very suitable for white leathers.

Due to its good dispersing power, SUSTAN PS drives other syntans in the bath deeply into the cross section of the leather, which results in full uptake, and the exhaustion is clear.

SUSTAN PS in combination with vegetable extracts increases the rate of penetration with a clear color and elastic grain.

## APPLICATION

SUSTAN PS can be used in all stages for the production of any articles (e.g., uppers, garments & linings, etc.)

Upper Leathers	: 4.0 – 8.0%
Garment leathers	: 2.0 – 4.0%
Vegetable tannage	: As required.

## STORAGE / SHELF LIFE

If SUSTAN PS is stored under dry and cool conditions, the product does not show any problem and has a shelf life of 2 years. Some caking may appear if stored under warm, damp conditions, but this does not affect either the solubility or the efficiency of the product.

## PACKAGING

25 Kgs Bag



SUSTAN PS LIQ is a retanning liquid syntan

## PROPERTIES

Chemical Composition	: Phenol naphthalene condensation
Appearance	: Brown liquid
pH(10% Solution)	: 3.0 – 4.0
Charge	: —

## FEATURES

SUSTAN PS LIQ produces leathers with good fullness and tight grain.

SUSTAN PS LIQ is most suited for retannage of chrome stock and vegetable-tanned leathers.

SUSTAN PS LIQ can be effectively used in the production of floater leather.

SUSTAN PS LIQ produces leathers with good light fastness and fine grain.

SUSTAN PS LIQ is mainly recommended for the production of sheep nappa, cow leather, upholstery, and all types of aniline leathers.

## APPLICATION

Sheep nappa leathers	: 4.0 – 6.0 %
Cow upper leathers	: 6.0 – 8.0 %
Cow lining	: 2.0 – 3.0 %

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTAN AS is an amphoteric synthetic tanning agent

## PROPERTIES

Chemical Composition	: Aromatic sulphonic acid condensate
Appearance	: Pale yellow powder
pH(10% Solution)	: 3.3-3.7
Charge	: Amphoteric

## FEATURES

SUSTAN AS has got all the properties of a full replacement syntan. Its amphoteric characteristic allows an early application before or during neutralization, and thus the early strengthening of the fibers immediately prevents any further looseness of the leather.

SUSTAN AS can be favorably combined with other syntans, vegetable tanning, and acrylic resin as well.

SUSTAN AS has got good filling and dispersing effects. It is very well adapted to the re-tanning process of the wet blue leather.

The leather retanned with SUSTAN AS has good light fastness and imparts a brilliant and clear shade.

## APPLICATION

SUSTAN AS can be used during rechroming, neutralization, and retanning stages.

In Rechroming	: 2.0 - 3.0%
In Neutralization	: 2.0 - 3.0%
In Retanning	: 2.0 - 5.0%

## STORAGE / SHELF LIFE

If SUSTAN AS is stored under dry and cool conditions, the product does not show any problem and has a shelf life of 2 years. Some caking may appear if stored under warm, damp conditions, but this does not affect either the solubility or the efficiency of the product.

## PACKAGING

25 Kgs Bag

SUSTAN SS is a white, lightfast retanning agent for chrome-tanned and wet white leathers

## PROPERTIES

Chemical Composition	: Condensation product of sulphones and aromatic sulphonic acids
Appearance	: Off white powder
pH(10% Solution)	: 3.8 – 4.0
Charge	: Anionic

## FEATURES

SUSTAN SS is a synthetic tanning agent with excellent tanning action and high fastness. It is particularly effective in the manufacture of wet-white and as the sole tanning agent. Low residual monomer content (phenol, formaldehyde). Compatible with all conventional anionic retanning agents and fatliquors. It has a round, springy handle with high fullness and fine grain. There is no adverse change in color when the leather is glazed. The natural pattern of skins, such as reptile skins remains intact. Excellent pigmentation effect. Clean, brilliant shade with good leveling and response to buffing.

## APPLICATION

SUSTAN SS is majorly used as pre-tannage and main tannage of wet white and chrome free leather. SUSTAN SS is particularly effective for use on all types of white leather and leather dyed to pale shades that are required to have high fastness. We would recommend retanning chrome-tanned leather that is intended to be dyed to pastel shades with SUSTAN SS before it is dyed. This enables very level shades with high fastness to be obtained. Vegetable-tanned leather and leather that has been pretanned with vegetable tanning agents has a paler shade and responds better to dyeing if it is retanned with SUSTAN SS. The whiteness of the leather can be enhanced by adding 1-2% SUSTAN SS to the depleted fatliquoring bath and then drumming the leather for a further half-hour.

## STORAGE / SHELF LIFE

This product has a shelf life of at least 12 months if it is stored in its sealed original packaging.

## PACKAGING

25 Kgs Bag



SUSTAN MD is a resin tanning agent for retanning chrome leather

## PROPERTIES

Chemical Composition	: Resin Tanning Agent based on Melaminine
Appearance	: Off White Powder
pH(10% Solution)	: 7.0 - 8.0
Charge	: -

## FEATURES

SUSTAN MD is an off-white powder that largely disperses itself in water to give a slightly turbid solution with a weekly alkaline reaction. Its stability is not impaired at a pH above 3. Separation of free formaldehyde that occurs with some resin tanning agent in the float or in the leather is unlikely with SUSTAN MD.

SUSTAN MD is anionic and therefore compatible with all anionic tanning agents, dyes, and auxiliaries.

SUSTAN MD renders the leather fuller, particularly in the loosely structured areas and imparts to it a fine, closed grain and a soft handle. Moreover, the resultant leather is characterized by its good dyeing properties. SUSTAN MD has hardly any lightening effect on the colour and improves the buffing properties of the leather suede and nubuck as well.

## APPLICATION

Upper	: 3.0 – 8.0%
Garment	: 2.0 – 4.0%
Light Leathers	: 2.0 – 6.0%
Sheep Skins	: 3.0 – 7.0%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

25 Kgs Bag



SUSTAN MS is a resin tanning agent based on melamine.

## PROPERTIES

Chemical Composition	: Melamine and aliphatic nitrogen compounds
Appearance	: White powder
pH(10% Solution)	: 8.0 - 8.5
Charge	: -

## FEATURES

SUSTAN MS is a soft resin in powder form recommended to obtain fullness and evenness of round filling during retanning process of chrome tanned leather.

SUSTAN MS has very good penetration effect and gives an excellent fullness especially in the loose part of the skin.

SUSTAN MS has very good buffability and does not bleach the colour. So, it is very much suitable for the production of suede and Nubuck leather.

## APPLICATION

SUSTAN MS can be used in all stages for the production of any articles (e.g. uppers, garment, lining etc.)

Full Chrome Leather based on shaved weight.

3-4% Softy Upper

4-5% Goat Suede

2-4% Nubuck leather

2-3% Lining Leather

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

25 Kgs Bag





SUSTAN MS LIQ is a resin tanning agent based on melamine

## PROPERTIES

Chemical Composition	: Melamine and aliphatic nitrogen compounds
Appearance	: Colourless transparent liquid
pH(10% Solution)	: 6.5 -7.0
Charge	: —

## FEATURES

SUSTAN MS LIQ is a soft resin in liquid form recommended to obtain fullness and evenness with a round feel during the retanning process of chrome-tanned leather.

SUSTAN MS LIQ has a very good penetration effect and gives excellent fullness, especially in the loose part of the skin.

SUSTAN MS LIQ has very good buffability and does not bleach the color. So, it is very suitable for the production of suede and nubuck leathers.

SUSTAN MS LIQ can be used in all stages for the production of any articles (e.g. uppers, garment, lining, etc.)

## APPLICATION

Softy upper	: 2.0 – 4.0 %
Goat suede	: 4.0 – 5.0 %
Nubuck leather	: 2.0 – 4.0 %
Lining leather	: 2.0 – 3.0 %

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTAN DD is a dicynamide-based tanning cum filling agent

## PROPERTIES

Chemical Composition	: Nitrogen-containing polymeric resin
Appearance	: Pale brown powder
pH(10% Solution)	: 8.0 – 8.5
Charge	: ---

## FEATURES

SUSTAN DD has a selective filling action, mainly depositing itself in the loose, structured parts of the leather.

SUSTAN DD improves the fullness of chrome leather characteristics. Due to its non-astringent nature, there is no drawn grain effect.

SUSTAN DD imparts good level dyeing properties, good buffability, and makes the leather respond favorably to finishing.

## APPLICATION

Cow Lining	: 3.0 - 4.0 %
Softy Upper	: 2.0 - 4.0 %
Sheep Nappa	: 2.0 - 3.0 %
Goat Suede	: 3.0 - 4.0 %

## STORAGE / SHELF LIFE

SUSTAN DD can be stored for 12 months under normal conditions.

## PACKAGING

25 Kgs bag



SUSTAN DS is a synthetic tanning agent and dyeing auxiliary with a pronounced dispersing action

## PROPERTIES

Chemical Composition	: Condensation product of aromatic sulphonic acids
Appearance	: Beige Powder
pH(10% Solution)	: 7.0 Approx
Charge	: Anionic

## FEATURES

SUSTAN DS is employed in retannages applied to chrome-tanned leather.

It enhances the penetration of tanning agents and dyes. The grain remains smooth and elastic, and the leather can be dyed to more level shades. SUSTAN DS speeds up vegetable tanning processes, and the leather is smoother and has a paler shade.

SUSTAN DS is particularly recommended for use on all types of full-grain and corrected-grain shoe uppers and automotive leather and on vegetable-tanned leather, especially bag leather.

SUSTAN DS is a very effective dispersing agent for anionic retanning agents and dyes.

It improves the leveling and lightens the shade of the dyed leather without impairing its light fastness.

## APPLICATION

SUSTAN DS can be used in chrome-tanned leather for neutralization, retanning, and dyeing and in vegetable-tanned leather for tanning.

Vegetable tannage	: 10.0 – 12.0% of the amount of veg tanning material.
Neutralization.	: 1.0 – 2.0%
Retannage of wet blue	: 1.0 – 2.0%
Retannage of wet white	: 2.0 – 4.0%
Dyeing auxiliary	: 1.0 – 1.5%

## STORAGE / SHELF LIFE

This product has a shelf life of at least one year if it is stored in its tightly sealed original packaging at temperatures between 0 °C and 50 °C. Bags should be tightly resealed each time material is taken from them, and their contents should be used up as soon as possible after they have been opened.

## PACKAGING

25 Kgs bag



SUSTAN NS is an anionic synthetic auxiliary tanning agent specially recommended for neutralization

## PROPERTIES

Chemical Composition	: Based on aromatic condensation product and buffering complex
Appearance	: Cream-coloured Powder
pH(10% Solution)	: 6.5 – 7.0
Charge	: Anionic

## FEATURES

SUSTAN NS gives good results in the retanning and dyeing of chrome leathers and also in other mineral-tanned leathers, besides having special auxiliary tanning materials.

SUSTAN NS also contains complex active salts of organic acids, which have a very good neutralizing effect.

SUSTAN NS is anionic and hence is fixed by chrome leather and other minerals tanned.

## APPLICATION

Based on shaved weight.

Softy Upper	: 2.0%
Sheep Nappa	: 2.0%
Goat Upper	: 2.0%
Goat Lining	: 2.0%

## STORAGE / SHELF LIFE

If SUSTAN NS is stored under dry and cool conditions, the product does not show any problem and has a shelf life of 12 months.

## PACKAGING

25 Kgs bag



SUSTAN AP is an acrylic co-polymer syntan for retanning

## PROPERTIES

Chemical Composition	: Acrylic Co-polymer Syntan
Appearance	: Colourless transparent to slightly colored liquid.
pH(10% Solution)	: 6.30 – 6.70
Charge	: Anionic

## FEATURES

SUSTAN AP imparts a uniform filling effect with a round handle and leaves the leather with a fine, smooth grain.

SUSTAN AP is highly suitable for lightfast and heat-resistant leather. Leather with high intrinsic softness without risk of loose grain can be obtained by using SUSTAN AP in the retanning or fatliquoring stage.

SUSTAN AP does not affect the hydrophobic properties and can therefore also be used in the re-tanning of water-proof leather. with excellent fullness and tightness even at a higher dosage.

SUSTAN AP does not precipitate if used above pH 4. The ideal pH for the use of SUSTAN AP is between 6 and 7.

SUSTAN AP, when used in combination with other phenolic syntans, imparts good fullness and increases the cutting value of the leather.

## APPLICATION

Full Chrome Shoe Upper	: 2.0 – 4.0 %
Chrome Free Shoe Upper	: 2.0 – 4.0 %

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTAN MP is an acrylic-maleic copolymer for soft leathers

## PROPERTIES

Chemical Composition	: Acrylic-Maleic Copolymer
Appearance	: Pale yellow viscous liquid
pH(10% Solution)	: 8.5 – 9.5
Charge	: ---

## FEATURES

Being a soft polymer imparts soft and full leather.

It is especially suitable for filling loose fibers in upper leather.

This product is best suitable for white leathers and pastel shades because of its excellent lightfastness.

It is not compatible with mineral tanning agents.

When used in retanning, it improves the fullness and tightness of grain with elastic and bouncing properties.

## APPLICATION

Retanning: In retanning, SUSTAN MP can be applied after neutralization in the same bath, before addition of other retanning agents. It can also be added before or after fatliquoring.

% Based on shaved weight

Softy upper leather	: 2 – 4 %
Garment / upholstery leather	: 2 - 3 %
Sheep skin	: 2 – 3 %

## STORAGE / SHELF LIFE

SUSTAN MP can be stored for twelve months under normal conditions.

## PACKAGING

120 Kgs Drum



SUSTAN SM is a Styrene Maleic Copolymer Syntan

## PROPERTIES

Chemical Composition	: Styrene Maleic Copolymer
Appearance	: Clear light amber liquid
pH(10% Solution)	: 9.0 – 10.0
Charge	: ---

## FEATURES

It imparts tight grain with a mellow handle.

It maintains softness and body even after wet toggling.

It provides excellent leveling and distribution with the selective filling property.

When used after neutralization in the retanning bath, it gives a mellow handle, and when used after fatliquor and before fixation, it produces excellent grain tightening.

It helps in the fixation of dyes, retanning agents, and fatliquors.

## APPLICATION

% Based on shaved weight

In Upholstery Leather : 4.0 – 6.0%

In Shoe/ garment : 3.0 – 5.0%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

120 Kgs Drum



SUSTOL CFO is an APEO-free sulphited fish oil

## PROPERTIES

Chemical Composition	: Sulphited Fish Oil
Appearance	: Light brown colour liquid
pH(10% Solution)	: 6.0 – 7.0
Charge	: Anionic

## FEATURES

SUSTOL CFO gives exceptional softness. Even small quantities improve the handle, notably after preparing fat liquors

A well-balanced full handle is obtained by using SUSTOL CFO.

When using SUSTOL CFO, the leather has a round and warm handle.

## APPLICATION

Suitable for use along with other fat liquor in the leather tanning and retanning process of cow, goat, buffalo and sheep leather

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

120 Kgs Drum



SUSTOL FO is an APEO-free, cold-filtered, deodorized sulphited fish oil

## PROPERTIES

Chemical Composition	: Deodorized refined fish oil
Appearance	: Light brown color liquid
pH(10% Solution)	: 6.0 – 7.0
Charge	: Anionic

## FEATURES

SUSTOL FO is a highly concentrated sulphited fish oil fat liquor. By means of a special treatment applied to its base, SUSTOL FO is fully odorless.

It's very high softening power makes it ideal for basic fat liquoring to be applied to leather where a special effect of softness is required.

A well-balanced full handle is obtained by using SUSTOL FO.

It is compatible with other anionic fat liquors, and it is stable to various electrolytes.

## APPLICATION

Suitable for use along with other fat liquor in the leather tanning and retanning process of cow, goat, buffalo and sheep leather in the leather tanning and retanning process of cow, goat, buffalo, and sheep.

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

120 Kgs Drum



SUSTOL GF01 is a phospho-polymer, main fatliquor for very soft leather

## PROPERTIES

Chemical Composition	: Sulphited & Phosphated fatty alcohol esters with feel improver
Appearance	: White thick paste
pH(10% Solution)	: $7.0 \pm 0.5\%$
Charge	: Anionic

## FEATURES

SUSTOL GF01 is most ideal as the main fatliquor for furniture, gloving, and nappas, resulting in very deep and inner softness, a plump body, and a fluffy handle without any looseness. It is particularly beneficial for giving a bright white surface without the blueish tinge of chrome and an unmatched silky feel.

SUSTOL GF01 contains no natural oils or solvents, so the leathers are odorless and also low fogging. It has excellent lightfast and aging properties, is mildly bleaching, and can be used for wet-white, white, and other pastel-colored leathers. The crusts can be stored for a long time without fear of causing any blemishes.

SUSTOL GF01 fiber-relaxing property, the crusts yield a significantly higher area as compared to other fatliquors. Though generally recommended as the main fatliquor. This product is resistant to acids, salts, and electrolytes normally used in tanneries.

## APPLICATION

To the required quantity of SUSTOL GF01, add slowly three times its own weight of water at 60°C while stirring.

Industrial gloving leather	: 12.0-15.0%
Buff upholstery	: 15.0%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

120 Kgs Drum



SUSTOL GF02 is an electrolyte-stable synthetic fatliquor

## PROPERTIES

Chemical Composition	: Sulpho chlorinated hydrocarbon and fatty acid ester
Appearance	: Brown viscous liquid
pH(10% Solution)	: 7.0 – 9.0
Charge	: Anionic

## FEATURES

SUSTOL GF02 has excellent stability for chrome baths and electrolytes.

SUSTOL GF02 imparts grain surface lubrication, smooth, supple feed, nourished grain, low odor, and good light fastness.

SUSTOL GF02 has fiber-relaxing properties; the crusts yield a significantly higher area as compared to other fatliquors. This product is resistant to acids, salts, and electrolytes normally used in tanneries.

## APPLICATION

Can be diluted with cold or warm water in the ratio of 1:4 it will give a transparent emulsion.

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

120 Kgs Drum



SUSTOL GF03 is a high-quality blend of sulphited natural and synthetic oils with ester for garment, gloving and upholstery leather

## PROPERTIES

Chemical Composition	: Sulphited vegetable oil and synthetic oils with esters.
Appearance	: White to off-white uniform paste.
pH(10% Solution)	: 7.0 – 8.0
Charge	: Anionic

## FEATURES

SUSTOL GF03 when used in the neutralization process, improves the smoothness of the grain and inner surfaces.

SUSTOL GF03 can be used alone or in combination with other anionic or non-ionic fat liquors. Best results are achieved in combination with other fatliquors.

SUSTOL GF03 Penetrates deeply and provides high inner softness with a waxy touch and good light fastness on leather. Gives light weight leathers.

SUSTOL GF03 is stable to acids and salts normally used in tanneries.

## APPLICATION

Combinations with other fatliquor have to be stirred thoroughly before dilution. Dilution method 1:3 with water of 50-60°C.

Glove	: 4.0 -6.0%
Upholstery	: 3.0 – 5.0%
Garment	: 3.0 - 4.0%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTOL SF33 is a specialty fatliquor for gloving and soft leathers

## PROPERTIES

Chemical Composition	: Sulfonated esters, alkyl carboxylates & Sulpho Succinates
Appearance	: Off White to Yellow hazy, slight viscous liquid
pH(10% Solution)	: 6.5 – 8.0
Charge	: Anionic

## FEATURES

SUSTOL SF33 marks a major breakthrough in fatliquoring technology, thus facilitating exceptional softening properties to be achieved in a wide range of leathers.

SUSTOL SF33 is based on environmentally friendly, readily renewable raw materials and is free from fish oil and solvent-based components. The technology utilized in the manufacture of SUSTOL SF33 ensures that even penetration and distribution of the softening components are achieved throughout the cross section of the leather.

Leathers fatliquored with SUSTOL SF33 exhibit remarkable softness and light weight coupled with a kind of mellow handle. When used in the production of gloving, upholstery, and garment leathers. SUSTOL SF33 will confer inner softness and roundness without danger of leather becoming loose and empty.

## APPLICATION

SUSTOL SF33 can be used 6–8% for garment leather from hides and skins. 10–12% in gloving and upholstery leathers. Imparts excellent touch and grain characteristics on garment and glove leather. 3–6% can be used for suedes and nubucks to get good touch and sheen along with softness.

## STORAGE / SHELF LIFE

If SUSTOL SF33 is stored under dry and cool conditions, the product does not show any problem and has a shelf life of 6 months. Avoid freezing. Stir well before use. Close the container tightly after use.

## PACKAGING

120 Kgs Drum



SUSTOL GLH is an anionic fully synthetic fatliquor

## PROPERTIES

Chemical Composition	: Sulphited ester and high molecular aliphatic hydrocarbons.
Appearance	: Off white liquid.
pH(10% Solution)	: 7.0– 9.0
Charge	: Anionic

## FEATURES

SUSTOL GLH imparts the leather with good softness and gives waxy handle to the leather. SUSTOL GLH increases the tensile strength and tear strength.

Due to excellent stability to salts, acids and chrome. SUSTOL GLH is recommended as a pre-fat liquor during pickling and chrome tanning for all types of leathers and furs. The hairs are free from grease and oils.

SUSTOL GLH imparts uniform and level dyeing. On suede and nubuck, it gives silky, glossy, and lustery optics. Due to its good penetration and good emulsifying power, it can be used as an emulsifier for other fat liquors.

Because of its very good lightfastness and its excellent dyeing ability, SUSTOL GLH is suitable for softies, nappa, suede, nubuck, and split suedes. SUSTOL GLH is also suitable for wetting back harsh leather.

## APPLICATION

% Based on shaved weight

Chrome retanning	: 1.0 – 4.0 %
Synthetic vegetable tanning	: 0.5 – 2.0 %
Dyeing	: 0.5 – 1.0 %
Main Fat Liquor	: 5.0 – 12.0 %

% Based on pelt weight

Pickling	: 0.3 – 2.0 %
Tanning	: 0.5 – 3.0 %

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTOL BA is a high-quality natural phospholipid for garment, gloving and upholstery leather

## PROPERTIES

Chemical Composition	: Combination of phospholipids with special ester
Appearance	: Beige uniform paste
pH(10% Solution)	: 6.5 – 8.0
Charge	: Anionic

## FEATURES

Penetrates deeply and provides high inner softness with a waxy touch.

If used in the neutralization, it improves the smoothness of the grain resulting in fine and smooth grain.

Fluffy character.

Very good light fastness.

Gives light weight leathers

## APPLICATION

Goat gloving leather	: 2.0 – 4.0%
Upholstery	: 2.0 – 4.0%
Garment	: 2.0 – 3.0%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

120 Kgs Drum

SUSTOL PE is an anionic synthetic fatliquor based on phosphoric esters for soft leathers

## PROPERTIES

Chemical Composition	: Sulphonated Synthetic Oils with Softeners.
Appearance	: Brown liquid.
pH(10% Solution)	: 6.0 – 7.5
Charge	: Anionic

## FEATURES

SUSTOL PE is specially formulated to obtain very soft leather with a spongy, round feel.

Good lightfastness and heat resistance.

Uniform dyeing, little tendency to lighten.

Good compatibility with other fatliquors.

Neutral odour.

Resultant leathers are light in weight.

## APPLICATION

Sheep Nappa	: 4.0 - 6.0%
Upholstery	: 4.0 – 8.0%
Clothing Leather	: 4.0 – 8.0%
Bag Leather	: 2.0 – 6.0%
Suedes	: Up to 5%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

120 Kgs Drum





SUSTOL UF is a natural and synthetic phosphated fatty polymer

## PROPERTIES

Chemical Composition	: ---
Appearance	: Light Brown Viscous Liquid.
pH(10% Solution)	: 6.5 – 7.5
Charge	: Anionic

## FEATURES

SUSTOL UF is suitable for a wide range of articles due to its polymer chemistry.

SUSTOL UF reduces the fiber tension of the leather fibers and relaxes the wrinkle, resulting in flat leather. It is compatible with regular synthetic, natural, and marine fatliquor.

SUSTOL UF has excellent emulsification at low temperatures and can be used for white and light-fast articles. It is compatible with regular synthetic and natural sulphited oils and marine fatliquor.

## APPLICATION

Shoe Nappa	: 4.0 – 6.0 %
Garment	: 8.0 – 10.0 %
Cow Upholstery	: 7.0 – 10.0 %
Buff Upholstery	: 12.0 – 15.0 %
Lining & Chrome Free	: 4.0 – 6.0 %

Note: If affected by frost, the product should be heated to a temperature of 20 to 25°C and stirred before use.

## STORAGE / SHELF LIFE

Under dry storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTOL SO is a lubricant sperm oil-based fatliquor

## PROPERTIES

Chemical Composition	: Synthetic sperm oil fatliquor
Appearance	: Brown free flowing liquid
pH(10% Solution)	: 7.0 – 8.5
Charge	: Anionic

## FEATURES

SUSTOL SO gives softness, fullness, and the waxy feel typical of natural sperm oil.

SUSTOL SO can be used as a single fatliquor even up to 20% on the shaved weight without imparting greasiness on the surface of the leather.

SUSTOL SO compatible with other non-ionic and anionic fatliquors. Can be used as an anionic component in multi-charge preparations. Compatible with synthetic and chrome tanning agents.

## APPLICATION

Goat gloving leather	: 16.0%
Cow softy	: 3.0%
Goat upper	: 2.0%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTAN VO is a versatile fatliquoring agent based on vegetable oil

## PROPERTIES

Chemical Composition	: Anionic Sulphited Vegetable Oil Blend
Appearance	: Light brown viscous liquid
pH(10% Solution)	: 7.0 – 8.5
Charge	: Anionic

## FEATURES

SUSTAN VO is a multipurpose fatliquor based on sulphited vegetable oil that can be diluted with warm and cold water. It has good stability for hard water, neutral salts, acids, and alkalis. SUSTAN VO imparts good softness as it penetrates deep into the fibers and deposits uniformly in the cross section of the leather, which gives a soft and round feel.

SUSTAN VO enhances fullness and body to the leather without loading.

SUSTAN VO will improve the buffing properties when used during the crusting of suede and nubuck leathers.

## APPLICATION

% Based on shaved weight

Glazed Upper	: 1.5 - 2.0 %
Burnish Upper	: 1.5 - 3.0 %
Cow Softy	: 1.0 - 2.0 %
Sheep Crusting	: 1.5 - 2.0 %
Suede Crusting	: 2.0 - 3.0 %

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTOL LC is a nourishing fatliquor based on lecithin

## PROPERTIES

Chemical Composition	: Synthetic fatliquor with lecithin and paraffins
Appearance	: Brown transparent liquid
pH(10% Solution)	: 7.0 – 9.0
Charge	: Anionic
Active matter (%w/w)	: 70% ± 2

## FEATURES

Penetrative fat liquor with a waxy feel. Suitable for garments and automotive leather. It gives good softness throughout the cross section of the leath

## APPLICATION

Upholstery	: 3.0%
Garment	: 4.0%
Shoe upper	: 3.0%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTOL NF is a light-fast fatliquor based on neat foot oil

## PROPERTIES

Chemical Composition	: Based on synthetic neat foot oil combined with special softeners
Appearance	: Clear brown liquid
pH(10% Solution)	: 7.0 – 8.5
Charge	: —

## FEATURES

SUSTOL NF imparts outstanding softness and a grain lubricating effect on the treated leathers, which can be finished without difficulty.

SUSTOL NF helps in protecting the leather surface from fatty spue.

SUSTOL NF imparts a pleasant round surface feel and improves resistance to grain cracks. It helps to retain a tight and fine grain and also helps to improve tear strength.

SUSTOL NF helps to enhance the overall fat liquoring effect when used in combination with other oils.

SUSTOL NF has remarkable light fastness and can be used for all types of light-shaded leather.

## APPLICATION

Goat gloving leather	: 5.0%
Upholstery	: 4.0%
Goat upper	: 3.0%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Drum



SUSTOL WP is a water repellent for the leather and fur industry

## PROPERTIES

Chemical Composition	: Synthetic, silicone-based fatliquor with a special emulsifier system
Appearance	: Milky white liquid
pH(10% Solution)	: 7.0 – 8.0
Charge	: Anionic

## FEATURES

SUSTOL WP is recommended for use on all types of leather, especially leather that is tested by the Maeser method. Because of its high fastness, it is also recommended for use on white leather and fur skins and on skins dyed to pastel shades.

SUSTOL WP is mainly employed as a water repellent for chrome-tanned leather. It can also be applied to leather that has been tanned with a combination of vegetable and synthetic tanning agents, provided it is fixed with metal salts, but the level of water resistance that can be achieved is not as high as on leather that has been tanned with mineral salts.

SUSTOL WP does not necessarily have to be fixed separately, but we would recommend fixing it with metal salts if the leather has to fulfill high standards of water resistance.

## APPLICATION

The following guidelines need to be observed in order to obtain high water repellency :

- Attention needs to be paid to optimizing all processes that promote the even distribution of chemicals through the cross-section of the leather.
- The skin needs to be opened up well at the liming stage.
- The pelts must be thoroughly delimed.
- The leather needs to be neutralized evenly through the complete cross-section.
- All hydrophilic substances, should be eliminated from the manufacturing process.
  - ❖ Surfactants (if absolutely necessary, minimum quantities of nonionic surfactants may be used for soaking).
  - ❖ Retanning agents with a high salt content.
  - ❖ Liquid dyes containing large proportions of solvents.
  - ❖ Dispersing agents, especially those used to promote the penetration of dyes.
  - ❖ Fatliquors that contain hydrophilic emulsifiers.
  - ❖ The following methods need to be adopted in order to obtain superior results with
- Short floats should be used to encourage penetration.
- The pH and temperature need to be monitored closely.
- Sufficient time needs to be allowed for drumming.
- The water repellent should be fixed with metal salts.



## **STORAGE / SHELF LIFE**

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## **PACKAGING**

120 Kgs Drum



SUSTOL HD is a high-performance water proof and water repellent fatliquor.

## PROPERTIES

Chemical Composition	:	Blend of hydroxyl terminated poly dimethyl siloxane silicone and long straight chain paraffin wax with hydrophobic surfactant.
Appearance	:	Off white soft wax
pH(10% Solution)	:	10.0 – 11.0
Charge	:	Anionic
Stability to electrolytes	:	Stable to acids and salts under usual tannery conditions. Not stable in chrome liquors.
Dilution	:	Dilution method 1:3 with water of 50-60°C

## FEATURES

SUSTOL HD provides excellent water proof and water repellent characters to the leather. It can be used as a single fat liquor for waterproof and also for soft gloves and garments and provides remarkable softness with stretch.

- It is compatible with other anionic fat liquors.
- Best for white tanning and pastel shade dyeing.
- Does not highlight defects on the leather surfaces.
- Excellent heat resistance.

For best water proofing effect capping with mineral tanning salts in fresh bath after washing is suggested. It is advised to avoid hydrophilic products in the tanning to get required water proof effects.

## APPLICATION

Pre Fat Liquoring	-	5.0%
Main Fat Liquoring	-	5.0%
Garment Nappa	-	Up to 10%
Gloving	-	Up to 5 %
Water Proofing Leather	-	Up to 15%

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

120 Kgs Can





SUSTOL CF is a cationic fatliquor

## PROPERTIES

Chemical Composition	:	Cationic fatliquor based on unsaturated ethoxylated alcohol
Appearance	:	White soft paste
pH(10% Solution)	:	4.0-5.5
Charge	:	Cationic

## FEATURES

SUSTOL CF being slightly cationic fat liquor it is to be used during wet blue processing as well as dyeing of all types of leather. It is used in chrome tanning to give uniform penetration of basic chromium Sulphate and better uptake of chrome and for its lubricating properties.

SUSTOL CF imparts fullness and softness on the surface of the leather.

SUSTOL CF can also be used in wetback. It is of very good light fastness and stability to electrolytes.

SUSTOL CF imparts good sheen over suede surface. It can be used as suede a top fatliquor to give better handle. It will enhance the depth and optic of the dyeing when used in sandwich dyeing which also result in the reduced percentage of dye.

## APPLICATION

During chrome tanning	:	0.5 % -1.0 % on pelt weight
Suede	:	1.0 % -6.0 % on the crust weight
Grain leathers	:	0.5 % -1.0% on wet blue weight
Sandwich dyeing	:	0.5 % on wet blue weight

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 6 months.

## PACKAGING

120 Kgs Can



SUSTAN BCS is a superior inorganically reduced basic chromium sulphate

## PROPERTIES

Chemical Composition	: Chromium oxide
Appearance	: Dark green coloured powder
pH(1% Solution)	: 2.8 – 3.2
Chromic oxide content	: 24-25%
Basicity	: 33%

## FEATURES

SUSTAN BCS anionic nature guarantees even chrome penetration, ensuring uniform distribution throughout the material.

SUSTAN BCS robust sulphate masking, which speeds up chromium penetration, streamlining the tanning process.

SUSTAN BCS demonstrates effortless solubility, even in cold water, making application easy and improving overall treatment efficiency.

## APPLICATION

Hides/Skins : 6.0 - 8.0%  
(% Based on pickle weight)

## STORAGE / SHELF LIFE

Under dry and cool storage conditions, the product does not show any problems and has a shelf life of 12 months.

## PACKAGING

25 Kgs Bag



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