



FGL INTERNATIONAL SPA

Direct heir of the experience built up in over 60 years by Figli di Guido Lapi, FGL International was set up specifically to produce auxiliary chemical tanning products with a high added value.

"TANNERY IS OUR CORE BUSINESS"

A passion for new solutions to improve the tannery sector, the unquestionable technical skills of its professionals, the experience built-up in the field, a highly qualified R&D department and dedicated on-site service are what have led leather manufacturers to choose FGL International as their ideal business partner.

FGL International has a flexible production structure composed of qualified professionals designed to operate efficiently on the various international markets.

Management of the departments is fully computerised and complies with [UNI EN ISO 9001:2008](#) standards for which the company has been certified since 1999.

This system controls every aspect of business from administration to marketing, research, production, warehouse inventories and customer assistance while also assuring safety in the workplace.

Flexibility is the key feature based on two basic principles:

- 1) The availability of a fully-stocked warehouse
- 2) The ability to satisfy customer's needs promptly, all over the world

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PRODUCTS

FGL International produces a full range of innovative and effective chemical products for tanning, re-tanning and dyeing.

FGL International's production plants, directly connected with its highly technological R&D labs, have enabled a rationalisation of production processes and flexibility, the key tools for rapidly responding to individual needs. Specialised technicians verify product quality throughout the production process to ensure that the high quality standards provided for are complied with.

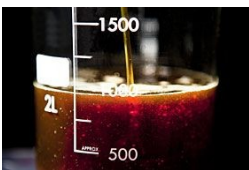
AUXILIARES



MINERAL TANNING AGENT



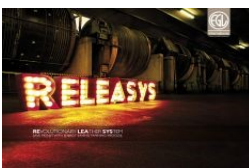
OILS & FATLIQUORS



SYNTANS



RELEASYS



DYESTUFFS



SURFACTANTS & ENZYMES



RESINS



VEGETABLE TANNINS



ZERO



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AUXILIARES

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AUXILIARES

[PERMASOL SW](#)

[PERMASOL TFR](#)

[PERMASOL TXM45](#)

[PERMASOL WT](#)

[PREBATING PL/N](#)

[PREBATING PL/T](#)

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[PROLIME AR/N](#)

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MINERAL TANNING AGENT

[EUROCROM 26/33](#)

[EUROCROM X50](#)

[KROM AB](#)

[LECOSIN CZ/C](#)

[LECOSIN LC/N](#)

[PERMASOL 3ALT](#)

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SURFACTANTS & ENZYMES

[MULGAN BE/X](#)

[MULGAN D](#)

[MULGAN E 50](#)

[MULGAN E-CO](#)

[MULGAN K 687](#)

[MULGAN KE](#)

[MULGAN L 23](#)

[MULGAN S/80](#)

[PROENZYM AL/N](#)

[PROENZYM C 2 e CR 6](#)

[PROENZYM C 80 CONC](#)

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OILS & FATLIQUORS

[IDROIL IPV](#)

[IDROIL O.P.B. - 10](#)

[IDROIL PA/X](#)

[IDROL 6NB](#)

[IDROL 8NB](#)

[IDROL 51H](#)

[IDROL GC/70](#)

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[IDROL L40](#)

[IDROL LB/2](#)

[IDROL LCA](#)

[IDROL LF](#)

[IDROL NL](#)

[IDROL QS90](#)

[IDROL QS95](#)

[IDROPROOF WO](#)

[IDROSIN EP-OC](#)

[IDROSIN ET-75](#)

[IDROSIN HA-11F](#)

[IDROSIN JJ](#)

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[IDROSIN KB60](#)

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OILS & FATLIQUORS

[IDROSIN PT](#)

[IDROSIN SC](#)

[IDROSIN TA](#)

[IDROSIN TA/E](#)

[IDROSIN VB/8](#)

[IDROSIN WL/L](#)

[IDROSOFT KAT/20](#)

[IDROSOFT SAVE GI 98](#)

[IDROSOL BOM](#)

[IDROSOL M1](#)

[IDROSOL S](#)

[IDROSOL SPM](#)

[IDROSOL T/65](#)

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RESINS

[LECOREN 200](#)

[LECOREN 230](#)

[LECOREN 716/F](#)

[LECOREN 747](#)

[LECOREN 800](#)

[LECOREN 940](#)

[LECOREN AC6](#)

[LECOREN DR EXTRA](#)

[LECOREN LTX](#)

[LECOREN M12](#)

[LECOREN ML CONC](#)

[LECOREN MN](#)

[LECOREN N/22](#)

[LECOREN OP](#)

[LECOREN PVA](#)

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SYNTANS

[LECOSIN 1A](#)

[LECOSIN BN](#)

[LECOSIN CC CONC](#)

[LECOSIN CDD](#)

[LECOSIN CF LIQ](#)

[LECOSIN CF/T3](#)

[LECOSIN CMF/B](#)

[LECOSIN CN](#)

[LECOSIN CR/5](#)

[LECOSIN CWS](#)

[LECOSIN CX/L](#)

[LECOSIN CX/N](#)

[LECOSIN FF](#)

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[LECOSIN FX](#)

[LECOSIN H-18](#)

[LECOSIN HLC](#)

[LECOSIN ITB](#)

[LECOSIN ITS](#)

[LECOSIN LEE](#)

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[LECOSIN NNL](#)

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SYNTANS

[LECOSIN OLS/C](#)

[LECOSIN PSW](#)

[LECOSIN R7S](#)

[LECOSIN ST](#)

[LECOSIN T/77](#)

[LECOSIN TC](#)

[LECOSIN TI/5](#)

[LECOSIN W EXTRA](#)

[LECOSIN X LIQ.](#)

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ZERO

[ECOSINT 300W](#)

[ECOSOFT 1001](#)

[ECOSOFT 1002](#)

[IDROSIN HA-11F](#)

[LECOREN LTX](#)

[PERMASOL KMT](#)

[POLISOFT 200W](#)

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International

ITALIAN LEATHER TECHNOLOGY

TECHNICAL DATA SHEET



BASIC 14

SEQUESTERING AND COMPLEXING AGENT FOR CATIONIC IONS AND RADICALS

ANALYSIS

ACTIVE SUBSTANCE 96 - 98%
pH SOLUTION 1:10 6.3 –7.8

PROPERTIES AND APPLICATIONS

BASIC 14 is a white powder, easily soluble in water, which has a sequestering and complexing effect on cationic ions and radicals.

BASIC 14 performs maximum chelating action when used at pH between 7.5 and 9.5.

BASIC 14 can be used in liming where it assists in the solubilization of the lime and before deliming to prevent the formation of lime blast on the grain.

BASIC 14 is ideal for use in the depickling of imported pickled sheep to promote good fullness.

BASIC 14 can be used as a complexing agent in the chrome tannage.

SUGGESTED PERCENTAGES OF USE

In liming	0.5% on salted weight
Before deliming	0.5% on pelt weight before adding the liming skins
In depickling	3% on pickled weight
In chrome tannage	0.5% on pelt weight

Mod. L11 Ed. 1 del 01.04.09

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BASIC 28

SEQUESTERING AND COMPLEXING AGENT FOR CATIONIC IONS AND RADICALS

ANALYSIS

TOTAL SOLIDS	Min.97,0%
pH SOLUTION 1:10	5.0 - 7.0

PROPERTIES AND APPLICATIONS

BASIC 28 is a white powder, easily soluble in water, which has a sequestering and complexing effect on cationic ions and radicals.

BASIC 28 performs maximum chelating action when used at pH between 7.5 and 9.5.

BASIC 28 can be used in liming where it assists in the solubilization of the lime and before deliming to prevent the formation of lime blast on the grain.

BASIC 28 is ideal for use in the depickling of imported pickled sheep to promote good fullness.

BASIC 28 can be used as a complexing agent in the chrome tannage.

SUGGESTED PERCENTAGES OF USE

In liming	0.5% on salted weight
Before deliming	0.1 - 0.5% on pelt weight before adding the liming skins
In depickling	3% on pickled weight
In chrome tannage	0.5% on pelt weight

Mod. L11 Ed. 2 del 18.06.10

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BIANCO PB3

WHITE PIGMENT

ANALYSIS

ACTIVE SUBSTANCE	52,0 – 56,0%
pH AS IT IS	7,5 – 9,5

PROPERTIES AND APPLICATIONS

BIANCO PB3 is a product with high content of Tio2

BIANCO PB3 shows a very good dispersion in water, with a good covering and dyeing property with an excellent fixation on the leather.

SUGGESTED PERCENTAGES OF USE

In Retannage A variable percentage for the leather and for the desired effect

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ECOGRIN 30 LR

FUNGICIDE BASED ON TCMTB

ANALYSIS

ACTIVE CONTENT	28 - 30%
pH SOLUTION 1:10	3.5 - 4.3

PROPERTIES AND APPLICATIONS

ECOGRIN 30 LR is an amber-coloured liquid containing TCMTB as an active base (a - [(thiocyanomethyl) - thio] - benzothiazole).

ECOGRIN 30 LR ensures the preservation of the leather for long periods of storage after chrome tannage.

ECOGRIN 30 LR is also particularly suitable for the preservation of pickled and wet-blue leather and can be used both in the pickle bath and the tannage; in any case it guarantees an excellent protection from the attack of moulds.

SUGGESTED PERCENTAGES OF USE

Pickle bath	0.15 - 0.20% on pelt weight added prior to the acids
Tannage bath	0.15 - 0.20% on pelt weight together with the 1st addition of chrome, in any case at the beginning of tannage process

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ECOGRIN CEV

BACTERICIDE AND ANTIMOULD FOR VEGETABLE AND CHROME LEATHER

ANALYSIS

ACTIVE CONTENT	38 - 40%
pH SOLUTION 1:10	9.5 – 11.5

PROPERTIES AND APPLICATIONS

ECOGRIN CEV is a limpid light brown liquid, soluble in water at any ratio, completely biodegradable, stable both in acid and alkali environment.

Thanks to the combination of the active substances contained and to their high absorption through the leather, ECOGRIN CEV is very good against moulds and bacteria and can be used in all the stages of production.

ECOGRIN CEV is also recommended to avoid moulds of the tannin liquor during sole-leather tannage in the pit.

ECOGRIN CEV can be used with excellent results in the pickle stage for chrome and rapid vegetable tannage in the following percentages and quantities, diluting the product prior to addition.

SUGGESTED PERCENTAGES OF USE

Pickled leather	0.2 - 0.5% on pelt weight it is advised to add the product a few minutes later than the salt addition
Chrome tannage	0.2 - 0.3% on pelt weight in case of a new bath, add the product at the beginning of tannage 0.3 - 0.5% for a longer preservation
Rapid vegetable tannage	0.3 - 0.5% on pelt weight added together with the vegetable tanning extracts
Fatliquor	0.2 - 0.4% on pelt weight

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ECOGRIN VBR

BIOCIDE WITH ANTIBACTERIAL ACTION

ANALYSIS

ACTIVE SUBSTANCE	Min.40.0%
pH SOLUTION 1:10	9.0 - 10.5

PROPERTIES AND APPLICATIONS

ECOGRIN VBR is a clear yellow coloured aqueous solution of sodium dimethyldithiocarbamide.

ECOGRIN VBR is recommended for use during the processing of leathers to reduce and prevent the development of bacterial action.

ECOGRIN VBR is ideal for use in soaking, wetting back, retannage and fatliquoring to prevent bacterial damage to the leather during processing, drying and storage in the warehouse.

SUGGESTED PERCENTAGES OF USE

In soaking	0.1 - 0.15% on fresh salted weight
In retannage	0.1 - 0.15% on shaved weight

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PERMASOL 5FS

LIQUID TANNING AGENT

ANALYSIS

ASPECT	Transparent liquid
ACTIVE SUBSTANCE	70 -75%
pH SOLUTION 1:10	3.0 – 5.0

PROPERTIES AND APPLICATIONS

PERMASOL 5FS is a colourless limpid liquid miscible in water in all portions

PERMASOL 5FS is an organic quaternary molecule with an outstanding tanning property. Its bounds to the basic group of the collagen are completely irreversible. PERMASOL 5FS is formaldehyde free product.

PERMASOL 5FS can be used in a pH range 2,0-5,0 in order to have a good penetration. For its fixation a pH range between 5,0 and 5,5 is needed. The final basification pH is strictly important to obtain a soft leather.

PERMASOL 5FS gives the possibility to produce chrome free white leather with good light fastness and high shrinking temperatures values.

PERMASOL 5FS can be used in pretannage, tannage and as dye fixing agent. It can also be used in finishing as cross linker.

The ideal quantity of PERMASOL 5FS in tannage is 2% based on pelt weight after pickel process (pH 2,5 – 3,0)

It is suggested to basify till a pH 5,0 – 5,2 with sodium bicarbonate.

It is not recommend any use of a masking agent. It is necessary to avoid deliming products based on sulphite or bisulphite.

SUGGESTED PERCENTAGES OF USE

In tannage process	2% on half pickel bath, run 3 hours, basify till a pH 5,0-5,2
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PERMASOL AG

TANNING AGENT BASED ON GLUTARALDEHYDE

ANALYSIS

ACTIVE SUBSTANCE	Min.45,0%
pH SOLUTION 1:10	4.0 - 5.0

PROPERTIES AND APPLICATIONS

PERMASOL AG is a yellow coloured liquid tanning agent based on glutaraldehyde with the pungent odour.

PERMASOL AG can be used as a pretanning agent in rapid vegetable tannage where it is added in the pickle bath at pH not higher than pH 3.5.

PERMASOL AG is compatible with mineral tannages and therefore can be used in the chrome tannage either as a pretannage or in combination with chrome.

PERMASOL AG helps to promote fullness, softness, roundness, good dyeability and improved tear resistance.

PERMASOL AG can also be used in conjunction with syntans to produce a wet white leather: good exhaustion of the PERMASOL AG in the tan bath can be obtained by increasing the pH above 5.0 with care. Too rapid a change in pH can create astringency.

SUGGESTED PERCENTAGES OF USE

In vegetable pretannage	0.5 - 1.5% on limed weight
In pretan for chrome	0.5 - 1.0% on limed weight
In retannage of chrome leathers	1.5 - 2.0% on shaved weight before neutralisation

Mod. L11 Ed. 2 del 01.12.09

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PERMASOL AG/25

TANNING AGENT BASED ON GLUTARALDEHYDE

ANALYSIS

ACTIVE SUBSTANCE	28-30%
pH SOLUTION 1:10	4.0-5.5

PROPERTIES AND APPLICATIONS

PERMASOL AG/25 is a yellow coloured liquid tanning agent based on glutaraldehyde with the pungent odour.

PERMASOL AG/25 can be used in retannage where soft articles are required.

PERMASOL AG/25 helps to promote fullness, softness, roundness, good dyeability and improved tear resistance.

SUGGESTED PERCENTAGES OF USE

In retannage of chrome leathers	1.5 - 2.0% on shaved weight along with rechroming before neutralisation
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PERMASOL AM

SPECIAL SYNTHETIC RETANNING PRODUCT

ANALYSIS

ACTIVE SUBSTANCE	58 - 62%
LIGHTFASTNESS	EXCELLENT
pH 1:10 SOLUTION	5.5 - 6.5

PROPERTIES AND APPLICATIONS

PERMASOL AM is a white paste based on a synthetic condensed of organic nature with anionic charge.

PERMASOL AM used in retannage process together with fatliquor blend assure leathers with very good hand and excellent softness. Can be used for the production of nappa, smooth and brush-off articles.

PERMASOL AM is compatible with all anionic charge products normally used in tannery while for mineral and cationic tanning agents the compatibility have to be verified.

SUGGESTED PERCENTAGES OF USE

In retannage process	3.0 – 6.0% on shaved weight Depending on the article and the desired effect
In fatliquor process	1.5 – 3.0% on shaved weight Depending on the article and the desired effect

Mod. L11 Ed. 0 del 10.06.04

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PERMASOL BP CONC liq

DYEING AUXILIARY WITH VERY STRONG LEVELLING EFFECT

ANALYSIS

TOTAL SOLIDS	32.0-35.0%
pH SOLUTION 1:10	8.0-9.0

PROPERTIES AND APPLICATIONS

PERMASOL BP Conc Liq is a transparent light yellow fluid.

PERMASOL BP Conc Liq is a particular formulation of chemicals elements which has the characteristics of co-ordinating with acids dyestuff. It makes a higher penetration and distribution effect of the dyes and more uniform dyeing.

PERMASOL BP Conc Liq is used during the first phase of dyeing to improve dyeing penetration.

SUGGESTED PERCENTAGES OF USE

In dyeing 0,5-2,0 % on shaved weight in consideration of leather type and desired effect.

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PERMASOL DLS Liq.

LIQUID SLIPPING AGENT

ANALYSIS

ACID STABILITY	GOOD
ALKALI STABILITY	GOOD
pH SOLUTION 1:10	7.0 – 8.0

PROPERTIES AND APPLICATIONS

PERMASOL DLS Liq. is a viscous liquid with the characteristic of an high slipping property.

PERMASOL DLS Liq. has been studied to grant excellent results also with low percentages of use.

PERMASOL DLS Liq. is a particularly formulation, and thanks to its stability in acid and alkali, it is particularly suitable to obtain a slipping effect in all the different work operation, every time that the type of leather and/or the quantity loaded need its use.

SUGGESTED PERCENTAGES OF USE

In all the wet operation	0.2 - 0.4% based on the type of leather and on the proportion between bath/leather
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PERMASOL DT

POLYMERIC AGENT WITH EXCELLENT DISPERSING ACTION

ANALYSIS

ACTIVE SUBSTANCE	38-42%
pH SOLUTION 1:10	7.5 – 8.5
CHARGE	ANIONIC
LIGHTFASTNESS	GOOD
HARD WATER STABILITY	GOOD

PROPERTIES AND APPLICATIONS

PERMASOL DT is a colourless fluid with anionic charge.

PERMASOL DT is a particular formulation of chemicals elements and molecular structure which has the characteristics to have an excellent dispersing action of the retanning and auxiliaries agents during the wet process.

PERMASOL DT is used with good result in order to improve and increase dyeing penetration.

PERMASOL DT can be use also to obtain water- resistant leather with a good penetration of water repellent agents

SUGGESTED PERCENTAGES OF USE

During neutralization , retannage and dyeing

In variable percentage in consideration of leather type and desired effect.

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PERMASOL FG/2

CATIONIC AGENT FOR DYE FIXATION

ANALYSIS

TOTAL SOLIDS	39 - 41%
CHARGE	CATIONIC
pH SOLUTION 1:10	2.5 – 5.0

PROPERTIES AND APPLICATIONS

PERMASOL FG/2 is a modified dicyanadiamide resin with a high cationic charge.

PERMASOL FG/2 is a fixing and tanning agent particularly developed for the treatment of anionic charged leathers such as full vegetable tanned or chrome stock heavy vegetable retanned.

PERMASOL FG/2 is an excellent fixing agent for anionic dyestuffs, able to brighten the colour and improve the exhaustion of the bath. It also helps to improve the wet rub fastness.

SUGGESTED PERCENTAGES OF USE

In dyeing 0.3 - 0.7% on shaved weight after the last addition of formic acid for fixing of the first part of dyestuff (sandwich method) better in a new bath

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PERMASOL GM

LIME AUXILIARY

ANALYSIS

TOTAL SOLIDS	Min. 92%
pH solution 1:10	6.5 – 7.5

PROPERTIES AND APPLICATIONS

PERMASOL GM gives a new conception in the approach of beam house technology.

The combined action of PERMASOL GM joined to the traditional alkali applied during unhairing procedure, ensure a direct control of pelt swelling.

PERMASOL GM help lime dispersion, cleaning of grain, reduction of swelling wrinkles and growth-marks.

SUGGESTED PERCENTAGES OF USE

On bovine	0.5 – 1.0% before addition of lime and sulphide
On calf	1.0 – 2.0% during the addition of lime

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PERMASOL GW

TANNING AGENT BASED ON ALIPHATIC ALDEHYDE

ANALYSIS

ACTIVE SUBSTANCE	38-40%
pH SOLUTION 1:10	2,0-3,5

PROPERTIES AND APPLICATIONS

PERMASOL GW is a colourless liquid tanning agent with slight aldehyde odour.

PERMASOL GW is compatible with product with anionic and cationic charge used in tannage and retannage processes improving penetration in leather fibrous structures.

PERMASOL GW helps to increase fullness and softness of the leathers imparting at the same fine grain.

PERMASOL GW thanks to its high resistance to yellowing, it is suggested for production of pastel colour improving brightness and intense dyeings

PERMASOL GW is also suggested for production of articles where low value of fogging is required

SUGGESTED PERCENTAGES OF USE

In retannage of chrome leather	2 - 4% on shaved weight after neutralization
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PERMASOL HB-44

BASIFYING AGENT FOR CHROME TANNAGE

ANALYSIS

ASPECT	PALE POWDER
pH SOLUTION 1:10	8.4 – 9.4

PROPERTIES AND APPLICATIONS

PERMASOL HB-44 is particularly studied with buffered alkalinity able to develop basifying effect with chrome tannage and masking properties in order to minimize pH values dangerous for leathers.

PERMASOL HB-44 is an ideal product in order to obtain as higher as possible chrome exhaustion during tannage process.

PERMASOL HB-44 allows wet-blue production with excellent fullness, softness, fine grain characteristics and good dyeability properties

PERMASOL HB-44 gives the possibility to reduce tanning agents without modify chrome content in the leather thus thanks to high chrome exhaustion.

SUGGESTED PERCENTAGES OF USE

Basification	one addition equivalent to 10-12% of chrome quantity
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PERMASOL K

INORGANIC COMPONENT IN WATER SOLUTION

ANALYSIS

ASPECT	Dense Liquid from colourless to yellowish
DENSITY	38.0-40.0 Bè
pH	10.5-11.5

PROPERTIES AND APPLICATIONS

PERMASOL K is a light yellowish dense liquid normally used on chrome leather for double face, nubuk and velours splits.

PERMASOL K allows to obtain leathers with closed fibre for easier and uniform buffing improving dye intensity and uniformity.

PERMASOL K imparts to leathers a firm and smooth hand improving leather physic characteristics such as grain break resistance.

SUGGESTED PERCENTAGES OF USE

In retannage	1.0 – 3.0% on shaved weight
After neutralisation	

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PERMASOL KMT

EMULSION OF SOFTENING AND SYNTHETIC POLYMERS

ANALYSIS

ACTIVE SUBSTANCE	38.0 – 42.0 %
pH SOLUTION 1:10	5.2-6.2

PROPERTIES AND APPLICATIONS

PERMASOL KMT is a yellow paste.

PERMASOL KMT thanks to its particular composition is able to easily disperse allowing an excellent penetration and distribution in to the leather with high bath exhaustion.

PERMASOL KMT guarantees articles with high softness and round hand even on empty parts.

PERMASOL KMT can be used on suede production and on those articles where fatliquor distribution and grain lubrication are essential requirements.

SUGGESTED PERCENTAGES OF USE

In fatliquoring	6 - 16% on shaved weight together with other fatliquors in consideration of desired article
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PERMASOL M/3

BASIFYING AGENT FOR CHROME TANNAGE

ANALYSIS

MAGNESIUM OXIDE Min. 83%

PROPERTIES AND APPLICATIONS

PERMASOL M/3 is a fine white powder based on magnesium oxide. It is used for the basification of the chrome tannages where it produces wet-blue leathers with a light, uniform colour.

PERMASOL M/3 can be used simply and practically since it can be added dry to the drum thanks to its slow solubilisation in accordance with the bath temperature. For this reason it is suggested to run the drum for about 6 - 8 hours after its addition and to reach a final temperature of 38 - 40° C to obtain the best exhaustion of the residual bath.

SUGGESTED PERCENTAGES OF USE

For unmasked chrome tannage It is suggested to add twice chrome for total 0.3 - 0.4% on pelt weight, after 30 - 60' and after the penetration of chrome. Final pH 3.8

For chrome masked tannage It is suggested to add with Permasol PPM 0.3 - 0.4% on pelt weight, 60' after the last addition of chrome. Final pH 3.8 - 4.0

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PERMASOL M/7

BASIFYING AGENT FOR CHROME TANNAGE

ANALYSIS

TOTAL SOLIDS Min. 99%

PROPERTIES AND APPLICATIONS

PERMASOL M/7 is a high quality basifying agent for chrome tannage.

PERMASOL M/7 reacts as a basifying of chrome tannage slowly and constantly without pH changes. Leathers obtained with PERMASOL M/7 have a pale colour and smooth and clean grain. In consideration of its masking effect properties, leathers are full.

PERMASOL M/7 is used in the drum after the addition of chrome. The bath have to be increased of 30-40% at a temperature of 35-40°C and after rotation of 5'-10'.

PERMASOL M/7 is used not dissolved in continuous rotation of 7-8 hours. It allows to obtain a final tannage pH of 3.6-3.8

SUGGESTED PERCENTAGES OF USE

In chrome tannage 10% on basic chrome sulphate weight
Our technical staff is at full disposal for further clarification

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PERMASOL M/10

BASIFYING AGENT FOR CHROME TANNAGE

ANALYSIS

TOTAL SOLIDS Min 95,0 %

PROPERTIES AND APPLICATIONS

PERMASOL M/10 is a fine off-white powder based on magnesium oxide. It is used for the basification of the chrome tannage, where it produces wet blue leathers with a light uniform colour.

PERMASOL M/10 should be added dry, either approximately 1 hour after the addition of the chrome, or with the chrome to the tan bath.

The slow solubility of PERMASOL M/10 in the acid conditions of the tan bath promotes a gradual increase of the pH during the basification process. It is recommended to run for a minimum of 6 hours after the addition of PERMASOL M/10.

The quantity of PERMASOL M/10 can be slightly adjusted, together with the acidity of the pickle bath, to produce the end pH required. Once established this process required little further control.

SUGGESTED PERCENTAGES OF USE

For unmasked chrome tannages 0.3 - 0.5% on pelt weight

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PERMASOL MF

BLEND OF NEUTRALISED ORGANIC ACIDS

ANALYSIS

TOTAL SOLIDS	Min. 90%
pH SOLUTION 1:10	5.5 - 7.0

PROPERTIES AND APPLICATIONS

PERMASOL MF is a valuable masking agent with a good buffering power. It is able to create chrome complex easy to penetrate rapidly, thus reducing the risk of grain overtanning.

Using PERMASOL MF in pickel bath before chrome addition at an offer of 1% to 2%, the leathers will be plumped, mellow and pale colour.

PERMASOL MF is also an excellent safe and mellow neutralising agent promoting mellow fine and elastic grain especially recommended for small skins, pale coloured and full aniline articles.

SUGGESTED PERCENTAGES OF USE

In chrome tanning	1 - 2% in pickel bath before chrome addition
In neutralisation	1 - 3% before neutralising salts

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PERMASOL NV

NEUTRALIZING SYNTHETIC AUXILIARY AGENT

ANALYSIS

ACTIVE SUBSTANCE	33.0 – 38.0%
pH SOLUTION 1:10	7,0 – 8,0

PROPERTIES AND APPLICATIONS

PERMASOL NV is a synthetic auxiliary very effective during neutralization. Imparts to the leathers a firm grain and excellent touch.

PERMASOL NV is a multipurpose product but its maximum result is on soft nappa, suede and nubuk without reducing the intensity of dyeing.

PERMASOL NV is blended in water at any ratio.

PERMASOL NV improves, in consideration of its basifying effect, the chrome exhaustion.

SUGGESTED PERCENTAGES OF USE

In retannage 2 - 5% on shaved weight in consideration of the article required.

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PERMASOL PPM

MASKING AGENT FOR CHROME TANNAGE

ANALYSIS

TOTAL SOLIDS	Min. 94%
pH SOLUTION 1:10	9.0 - 9.5

PROPERTIES AND APPLICATIONS

PERMASOL PPM is a masking salt with a strong buffering power particularly developed to give fullness to all those leathers with open structure which tend to give empty leathers and loose grain.

PERMASOL PPM together with the basifier helps to improve the exhaustion of the residual baths.

PERMASOL PPM also helps to obtain a better chrome distribution and a faster penetration, lowering tanning astringency. This produces a finer grain and lighter coloured wet blue leather.

SUGGESTED PERCENTAGES OF USE

It is suggested to use the product during chrome tannage directly in the drum:

Cattle leather	1 - 2% on pelt weight
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PERMASOL SH38

NON REACTIVE PRODUCT WITH SLEAPING EFFECT

ANALYSIS

TOTAL SOLIDS	Min.88%
pH SOLUTION 2%	6.7-7.7

PROPERTIES AND APPLICATIONS

PERMASOL SH38 is a white powder with low solubility particularly developed to produce colloidal inert dispersion with high sleeping properties

PERMASOL SH38 thanks to its characteristics it is able to reduce the risks of link and tear on light leathers or undesired frizing on heavy leathers.

PERMASOL SH38 can be added during every working processes without problem with the advantage of less mechanical wear and tear of drums and less electricity consumption.

SUGGESTED PERCENTAGES OF USE

Every time is required

In various percentages in consideration of desired effect

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PERMASOL SW

BLEACHING AGENT

ANALYSIS

ACTIVE SUBSTANCE (%NaClO₂) Min. 30,5%

PROPERTIES AND APPLICATIONS

PERMASOL SW is a light yellow transparent liquid able to obtain a strong bleaching action in acids situation developing gases where drums with aspiration systems are required.

PERMASOL SW can be used every time a discoloration operation or bleaching treatment is required.

PERMASOL SW is particularly recommended for the production of leathers with pale shade and every time a complete depigmented operation is necessary.

SUGGESTED PERCENTAGES OF USE

In pickel process 1,0-1,5% before the addition of acids – the aspiration system must work

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PERMASOL TFR

ANALYSIS

ASPECT	LIMPID LIQUID
pH SOLUTION 1:10	6.0 – 8.0

PROPERTIES AND APPLICATIONS

PERMASOL TFR is a limpid liquid able to react in a selective way with free-formaldehyde content present in the leather after tanning and retanning operations. It creates a stable compound through a non-reversible reaction.

PERMASOL TFR can be used with extremely facility and without any inconvenient.

PERMASOL TFR doesn't degree the dyeing and doesn't create bad smell, compare to normal products containing sulphur.

SUGGESTED PERCENTAGES OF USE

During dyeing 2.0 – 3.0% on shaved weight at the end of dyeing in a new bath

Technical staff is available for further information

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PERMASOL TXM45

PARAALDEIDIC RETANNING (*oxiazolidinic tanning*) AGENT

ANALYSIS

ASPECT	LIMPID RED-ORANGE LIQUID
pH SOLUTION 1:10	9.0 - 10.0

PROPERTIES AND APPLICATIONS

PERMASOL TXM45 is a transparent red-orange fluid.

PERMASOL TXM45 is a oxiazolidinic tanning agent able to improve the bath exhaustion in tanning and retanning process, and at the same time to obtain soft and full leathers.

PERMASOL TXM45 improves washable and transpiration properties, and the dyeing yield.

PERMASOL TXM45, thanks to its high capability to connect with the leather structure, improves uptaking of the extracts and giving more fullness to the leathers.

SUGGESTED PERCENTAGES OF USE

In pretanning, tanning and retanning	Variable percentage based on the process, leather and required effect.
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PERMASOL WT

TANNING AGENT BASED ON MODIFIED GLUTARALDEHYDE

ANALYSIS

ACTIVE SUBSTANCE	Min. 45%
pH SOLUTION 1:10	6.5 - 7.5

PROPERTIES AND APPLICATIONS

PERMASOL WT is a colourless liquid or slightly yellowish tanning agent with typical aldehyde smell.

PERMASOL WT is a soft tanning agent which gives its highest tanning action at pH between 6 and 7; in strong alkaline conditions the product loses a part of its tanning action and at pH value inferior to 4.5 can provoke sole-leather yellowing.

PERMASOL WT used as retanning agent of chrome leather, gives soft and pasty leather and in case of light leathers it does not increase material weight even if used at strong dosage.

PERMASOL WT finds its use as pretanning agent in chrome tannage promoting good tanning bath exhaustion and good dyeability.

SUGGESTED PERCENTAGES OF USE

In pretanning of chrome leather	1 - 2% on pelt weight
In retanning of chrome leather	2 - 4% on shaved weight after neutralisation

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PREBATING PL/N

DELIMITING AGENT BASED ON ORGANIC ACIDS AND INORGANIC SALTS

ANALYSIS

TOTAL SOLIDS	Min. 95%
pH SOLUTION 1:10	1.4 - 2.4

PROPERTIES AND APPLICATIONS

PREBATING PL/N appears as a pale powder with excellent solubility and good delimiting action in depth on heavy leather too.

PREBATING PL/N thanks to its composition based on delimiting products of organic nature, imparts to the leathers a very fine grain and reacting with lime, forms soluble salts easily removable with the usual final delimiting wash.

PREBATING PL/N thanks to its high buffering power, avoids grain swelling and maintain standard and medium pH values in order to avoid the bating of weak and open parts as flanks.

SUGGESTED PERCENTAGES OF USE

In delimiting	1.5 – 3.0% on pelt weight in consideration of the type of leather and the grade of delime required
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PREBATING PL/T

BLEND OF DELIMING SALTS

ANALYSIS

TOTAL SOLIDS	95 - 97%
SOLUBILITY AT 20° C	200 g/l
pH SOLUTION 1:10	2.5 - 3.5

PROPERTIES AND APPLICATIONS

PREBATING PL/T is an off white powder with excellent solubility properties and deep deliming power using normal tannery processes .

PREBATING PL/T reacts with lime, forming soluble salts easily eliminated with rinsing leaving a clean grain.

PREBATING PL/T has a very good buffering power, it avoids grain swelling and maintains medium pH values during all phases of processing.

SUGGESTED PERCENTAGES OF USE

In delime process 1.5 - 3.0% on pelt weight depending on the pelt and on the delime required

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PREBATING SCS

DELIMING AGENT BASED ON ORGANIC BUFFERING ACIDS -
FREE OF CHLORIDE, SULPHATE AND AMMONIUM SALTS

ANALYSIS

ACTIVE SUBSTANCE	Min. 95%
SOLUBILITY AT 20°C	80 g/l
pH SOLUTION 1:10	1.8- 2.8

PROPERTIES AND APPLICATIONS

PREBATING SCS is a delimiting agent based on buffering acids free of chloride, sulphate and ammonium salts. It appears as a fine, light yellow-coloured powder .

PREBATING SCS can be employed during the delimiting process of every kind of leather, where it is necessary to pay particular attention to the quality of the waste waters and at the same time, thanks to its good buffering power, PREBATING SCS promotes leathers with a fine grain.

PREBATING SCS is slightly slower in respect of the delimiting agents commonly used; for this reason, if it is not possible to change the normal production time, it is recommended to start the delimiting process adding a small proportion of PERMASOL PNS.

SUGGESTED PERCENTAGES OF USE

In delimiting process 0.5% PERMASOL PNS 15' drumming 1.0-2-5% of PREBATING SCS according to the kind of leather or to the delimiting grade required (percentages on pelt weight)

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PROLIME AR/N

AUXILIARY ORGANIC AGENT WITH ANTI-WRINKLE EFFECT

ANALYSIS

pH SOLUTION 1:10 9.5 - 11.0

PROPERTIES AND APPLICATIONS

PROLIME AR/N is a colourless limpid liquid of and a balanced combination of linear chain amines in an aqueous solution stable to electrolytes.

PROLIME AR/N finds wide application in soaking and liming processes for all kinds of leathers which have to be vegetable or chrome tanned.

PROLIME AR/N increases the lime solubility improving its diffusion together with the sulphide, in the section of the pelt obtaining a greater extension for glossier and tighter leathers.

SUGGESTED PERCENTAGES OF USE

In soaking process	0.2-0.3% on fresh salted weight together with enzymatic soaking agent
In liming process for vacchetta	0.5 - 1.0% on fresh salted weight in two times
In liming process for sole-leather	0.5-1.0% on fresh salted weight
In liming process for chrome leather	0.8 – 1.0% on fresh salted weight salted weight

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PROLIME NX

BEAMHOUSE AUXILIARY

ANALYSIS

TOTAL SOLIDS Min. 95%
pH SOLUTION 1:10 5.2 – 6.2

PROPERTIES AND APPLICATIONS

PROLIME NX is an uniform beige powder, developed for a catalytic action during beam-house stage.

PROLIME NX helps the destructive unhairing meanwhile giving more structural opening and surface cleaning.

PROLIME NX is stable at high pH value and applied in pH 10 - 12 can effort to the beam-house stage the following advantages:

- more grain cleaning
- reduction of lime and sulphide consumption
- increment of yield
- saving time of the process
- reduction of pollution impact

PROLIME NX is usually applied after 1-2 hours of the last addition of lime and sulphide or hydrogensulphide, and 1 hour of running is enough to develop all the properties of the product.

SUGGESTED PERCENTAGES OF USE

After 2 hours of the addition of lime and sulphide 0.1 - 0.5% on salted weight in relations of raw material origin

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PROLIME RBE

ENZYMATIC SOAKING AGENT

ANALYSIS

TOTAL SOLIDS	Min. 95%
pH SOLUTION 1:10	7.5 - 8.5

PROPERTIES AND APPLICATIONS

PROLIME RBE is an enzyme product recommended for the soaking of calf skins and ether salted or dryhides.

PROLIME RBE is a white powder readily soluble in water with an optimum enzyme activity in the pH range 8.0 - 9.5.

PROLIME RBE reduces remarkably the time needed for a complete soaking :

3 - 6 hours soaking for fresh salted hides
18 - 24 hours soaking for dried hides

PROLIME RBE reduced times tend to give tighter leathers, fuller bellies and less veininess.

SUGGESTED PERCENTAGES OF USE

Soaking for fresh salted hides 0.5% on fresh weight

Soaking dried hides 1.0 - 2.0% on dried weight

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EUROCROM 26/33

ANALYSIS

CHROME OXIDE (Cr₂ O₃) Min. 25%
BASICITY SCHORLERMNER 32 - 36

PROPERTIES AND APPLICATIONS

EUROCROM 26/33 is an organically reduced chrome sulphate easily soluble in cold water.

EUROCROM 26/33 can be used during pretannage, tannage and retannage stages, application and quantity of use are as normally used for chrome tanning agents with these characteristics.

Application and quantity of use are as normally used for chrome tanning agents with these characteristics.

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EUROCROM X50

ANALYSIS

CHROME OXIDE (Cr₂ O₃) 23.5 - 24.5%
BASICITY SCHORLEMMER 48 - 52

PROPERTIES AND APPLICATIONS

EUROCROM X50 is a green-coloured powder, with a high tanning properties, easily soluble in cold and hot water. EUROCROM X50 is a highly-basic chrome sulphate.

EUROCROM X50 is suitable for chrome tanning and re-tanning of all kind of skins. Thanks to its structure, its able to imparts tanning uniformity, as well as a high bath exhaustion. EUROCROM X50 can be added directly to the pickling bath in full chrome tannage, and thanks to high basicity, masking effect and buffering action, no basification is needed during its employment. We suggest to have a temperature at the end of tanning process of 30°C to obtain a good fixation of the product.

SUGGESTED PERCENTAGES OF USE

In tanning process 6 – 8% on pelt weight

In re-tanning 4 – 6% on shaved weight

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KROM AB

ANALYSIS

CHROME OXIDE (Cr₂ O₃) 21-22%

PROPERTIES AND APPLICATIONS

KROM AB is a selfbasifying chrome sulphate and it can be used during tannage and retannage.

Application and quantity of use are as normally used for chrome tanning agents with these characteristics.

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LECOSIN CZC

MINERAL TANNING AGENT

ANALYSIS

ZIRCONIUM OXIDE (ZrO ₂) SOLUBLE IN WATER	32.5-34.0 %
IRON (Fe ₂ O ₃)	max 100 ppm

PROPERTIES AND APPLICATIONS

LECOSIN CZC is white powder synthetic tanning agent based on zirconium, easily soluble in water.

LECOSIN CZC has high tanning property. It can be applied alone, and imparts to the leather a firm grain, excellent lightfastness and buffing properties.

LECOSIN CZC is ideal to retan wet blue splits for shoe and suede garment.

LECOSIN CZC has a good capability to fix anionic dyestuffs, improving the fullness of colour and the exhaustion of dyeing bath.

LECOSIN CZC employed as white tanning agent, produce pastel dyeing and brilliant colours.

SUGGESTED PERCENTAGES OF USE

In re-tanning of chrome leather	2 - 5% on shaved weight
During dyeing	1 - 3% on shaved weight
In pre-tannage	2 - 3%
In tannage	6 - 8%

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LECOSIN LC/N

SYNTHETIC RETANNING AGENT BASED ON CHROME-
ALLUMINIUM COMPLEX

ANALYSIS

TOTAL SOLIDS	Min. 92%
CHROME OXIDE (Cr ₂ O ₃)	Min. 10.3%
pH SOLUTION 2%	2.5 – 3.5

PROPERTIES AND APPLICATIONS

LECOSIN LC/N is a light green powder based on a chrome aluminium complex, that can be used in pre-tanning of pickled leathers, and in retanning of chrome leathers, splits and vegetable crust leathers.

LECOSIN LC/N if used in pre-tanning, penetrates rapidly and imparts to the pre-tanned leathers a light colour and a smooth and fine grain suitable for a further shaving process.

LECOSIN LC/N used in retanning of splits, produce leather with excellent dyability and high lightfastness.

LECOSIN LC/N in retanning of vegetable crust leathers, improves mechanical resistance, dyability and roundness.

SUGGESTED PERCENTAGES OF USE

In pre-tanning	2 - 4% on pelt weight
In retanning of wet-blue split	6 - 8% on shaved weight
Retanning of vegetable crust leathers	4 - 8% on shaved weight

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PERMASOL 3ALT

TANNING SALT BASED ON ALUMINIUM FOR ALL KIND OF LEATHERS

ANALYSIS

TOTAL SOLIDS	Min. 90%
pH SOLUTION 1:10	3.8 - 5.0

PROPERTIES AND APPLICATIONS

PERMASOL 3ALT is a tanning salt based on aluminium triformate in the form of a white crystallised powder which is easily soluble in hot water.

PERMASOL 3ALT can be used in the tanning process, together with the chrome as normally used, to produce a wet-blue with a very light colour.

PERMASOL 3ALT, used in the tannage or retannage, promotes bright and "clear" dyeings. PERMASOL 3ALT when used in the retannage improves the buffing characteristic of Nubuck and suede crust leathers.

SUGGESTED PERCENTAGES OF USE

In the tannage	0.5 - 2.0 % on pelt weight 30 mins. before the addition of the chrome.
In the retannage	1.5 - 3.0 % on shaved weight.
In the dye bath	0.5 - 1.0% on shaved weight after fixing with acid.

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MULGAN BE/X

NON IONIC SURFACTANTS ADDED WITH NON CHLORINATED SOLVENTS

ANALYSIS

ACTIVE SUBSTANCE	54 - 57%
pH SOLUTION 1:10	5.8 - 7.0

PROPERTIES AND APPLICATIONS

MULGAN BE/X is a degreasing agent based on non ionic ethoxylated surfactants.

MULGAN BE/X if used in fatliquoring, helps the emulsion and improves the penetration of the blend.

MULGAN BE/X is stable in acid conditions, to electrolytes and to hard water, and can be used in all the leather production phases.

SUGGESTED PERCENTAGES OF USE

In soaking of wet-blue leathers	0.5% on shaved weight
Added to fatliquor blend	0.2% on shaved weight
In delimiting	0.2 - 0.3% on limed weight

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MULGAN D

SURFACTANT AT DEGREASING AND EMULSIFY EFFECT

ANALYSIS

DRY RESIDUAL AT 102°C 26.0 – 30.0%
pH SOLUTION 1:10 6.5 – 8.0

PROPERTIES AND APPLICATIONS

MULGAN D is a light liquid easily soluble in water

MULGAN D is a particular ethoxylated alcohol formulation with excellent degreasing, emulsifying and wetting effect. It is used in degreasing process for those fatty leathers improving extraction and distribution.

MULGAN D is able to develop a good emulsify effect of natural fats. After shaving is useful during wash phases as auxiliary for further retannage treatments.

MULGAN D can be used in fatliquoring blends in order to increase their emulsionability.

SUGGESTED PERCENTAGES OF USE

In soaking and liming 0.2-0.3% on salted fresh weight

In degreasing process of sheepskins 2.0 – 6.0% on flesh weight

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MULGAN E 50

BLEND OF ETHOXYLATED ALCOHOLS WITH HIGH WETTING EFFECT

ANALYSIS

TOTAL SOLIDS AT 102°C 29 - 35%
pH SOLUTION 1:10 6.5 - 7.5

PROPERTIES AND APPLICATIONS

MULGAN E 50 is a particular surfactants combination appearing as a thick, transparent liquid .

MULGAN E 50 is particularly recommended during the soaking process of all kinds of leathers, thanks to its strong properties of diminishing the superficial resistance and therefore helping the water penetration.

MULGAN E 50 can also be used as an emulsifying agent of the anionic fatliquors and to help the degreasing of those leathers which are intended for sole-leathers.

SUGGESTED PERCENTAGES OF USE

In soaking process 0.3-0.5 on fresh salted weight according to the kind of leather

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MULGAN E-CO

SURFACTANT WITH HIGH DEGREASING AND EMULSIFYING POWER

ANALYSIS

ACTIVE SUBSTANCE	min 90%
TOTAL SOLIDS AT 102°C	81.0 - 85.0 %
pH SOLUTION 1:10	5.0-8.0

PROPERTIES AND APPLICATIONS

MULGAN E-CO is clear fluid easily soluble in water.

MULGAN E-CO is a particular formulation of ethoxylated alcohol having an excellent degreasing emulsifying power.

MULGAN E-CO is ideal in degreasing operation of fatty leathers, being like solvent but with a better biodegradable characteristics.

MULGAN E-CO has a good emulsifying properties on natural fats: it is extremely useful after shaving, during wash as auxiliary to prepare the leather to the future retanning steps.

MULGAN E-CO can also be used to emulsify the fatliquors blend.

SUGGESTED PERCENTAGES OF USE

In soaking and lime	0.1 - 0.5% on fresh salted weight
In degreasing of bovine skins	0.3 – 0.5% on flesh weight to produce the desired effect
In degreasing of sheep skins	2.0 – 4.0% on flesh weight to produce the desired effect

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MULGAN K 687

SURFACTANT WITH HIGH DEGREASING AND EMULSIFYING POWER

ANALYSIS

ACTIVE SUBSTANCE	83 - 86%
TOTAL SOLIDS AT 102°C	62 – 68%
pH SOLUTION 1:10	6.5 – 7.5

PROPERTIES AND APPLICATIONS

MULGAN K 687 is clear fluid easily soluble in water.

MULGAN K 687 is a particular formulation of ethoxylated alcohol having an excellent degreasing emulsifying power.

MULGAN K 687 is ideal in degreasing operation of fatty leathers, being like solvent but with a better biodegradable characteristics.

MULGAN K 687 has a good emulsifying properties on natural fats: it is extremely useful after shaving, during wash as auxiliary to prepare the leather to the future retanning steps.

MULGAN K 687 can also be used to emulsify the fatliquors blend.

SUGGESTED PERCENTAGES OF USE

In soaking and lime 0.1 – 0.3% on fresh salted weight

In degreasing of sheep skins 2.0 – 6.0% on flesh weight

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MULGAN KE

MULTIPURPOSE ECOLOGIC NON-IONIC SURFACTANT WITH

ANALYSIS

ACTIVE SUBSTANCE	min 75,0%
DRY RESIDUAL AT 102°C	56,0-60,0%
pH SOLUTION 1:10	5,8 - 6,8

PROPERTIES AND APPLICATIONS

MULGAN KE is semitransparent fluid easily soluble in water in all portions.

MULGAN KE is a particular formulation of ethoxylated alcohol easily and immediately biodegradable having an excellent degreasing emulsifying power without presence of solvents and alkilphenol derivates.

MULGAN KE has a good emulsifying properties on natural fats: it is extremely useful during all processes from beamhouse till degreasing and wet blue.

MULGAN KE respects all environmental laws of European Community

SUGGESTED PERCENTAGES OF USE

In lime	0.1 - 0.5% on fresh salted weight
In degreasing of bovine skins	0.3 – 0.5% on flesh weight to produce the desired effect
In degreasing of sheep and pig skins	2.0 – 4.0% in consideration of leather type.

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MULGAN L23

ANIONIC SURFACTANTS

ANALYSIS

ACTIVE SUBSTANCE	26.5 - 27.5 %
pH SOLUTION 1:10	6.5 - 7.5
HARDWATER STABILITY	GOOD
ALKALI STABILITY	GOOD

PROPERTIES AND APPLICATIONS

MULGAN L23 is a particular anionic surfactant which has the appearance of colourless semi fluid liquid.

MULGAN L23 has been particularly developed to give easier emulsifiability of natural fat.

MULGAN L23 has a strong bleaching and degreasing action for wool on skins. It can be employed like auxiliary for emulsion during liming and deliming of all the skins.

During fatliquoring it imparts more stability and dispersion of the emulsion of natural and synthetic products.

SUGGESTED PERCENTAGES OF USE

In lime	0.2 - 0.5% on fresh salted weight
In deliming	0.2 - 0.5% on fleshed weight
In soaking of wool on sheepskins	1 - 4% on raw weight
In fatliquoring	0.5 - 1% on shaved weight

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MULGAN S 80

BLEND OF NON IONIC ETHOXYLATED SURFACTANTS WHICH HAVE AN EXCELLENT WETTING AND DEGREASING ACTION

ANALYSIS

ACTIVE SUBSTANCE	19 - 21%
pH SOLUTION 1:10	7,8 – 8,8

PROPERTIES AND APPLICATIONS

MULGAN S 80 is a transparent liquid, based on combination of non-ionic surfactants which have an excellent wetting and degreasing action.

MULGAN S 80 is suggested on all kind of leather during soaking process in consideration of its high properties to decrease the upper tension and improving water absorption.

SUGGESTED PERCENTAGES OF USE

In soaking process	0.3 - 0.5% on salted fresh weight
	0,5-1,0% on salted dry weight

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PROENZYM AL/N

PANCREATIC BATING AGENT

ANALYSIS

TOTAL SOLIDS	Min. 95%
ENZYMATIC UNIT	670-680
pH SOLUTION 1:10	6.0 - 7.0

PROPERTIES AND APPLICATIONS

PROENZYM AL/N is a bating agent based on bacterial pancreatic proteases with delimiting salts and carriers, which are capable of bating the leathers without damaging the weaker and spongier parts of the leather, such as the bellies.

PROENZYM AL/N can reach an excellent bating effect in the pH range between 6.5 and 7.5, and a temperature which can fluctuate from 35 to 38° C..

SUGGESTED PERCENTAGES OF USE

In a bating process 0.5 - 0.7% on pelt weight, depending on the article and the desired effect

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PROENZYM C-2 & CR-6

PANCREATIC BATING AGENT

ANALYSIS

	C-2	CR-6
TOTAL SOLIDS	Min. 95%	Min. 96%
ENZYMATIC UNIT	300	900
pH SOLUTION 1:10	6.0 - 7.0	6.5 - 6.8

PROPERTIES AND APPLICATIONS

PROENZYM C-2 and CR-6 are bating agents based on bacterial pancreatic proteases with deliming salts and carriers, which are capable of bating the leathers without damaging the weaker and spongier parts of the leather, such as the bellies.

PROENZYM C-2 and CR-6 can reach an excellent bating effect in the pH range between 6.5 and 7.5, and a temperature which can fluctuate from 35 to 38° C..

PROENZYM C-2 and CR-6 has a low bating power and a medium deliming power and it can be used on all kinds of leathers which are to be chrome-tanned

SUGGESTED PERCENTAGES OF USE

Bating of the butts for the sole-leather production	0.5 - 1.0% PROENZYM C-2on pelt weight
Bating of calves for the wet blue production	0.5% PROENZYM CR-6 on pelt weight

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PROENZYM C-80 CONC

CONCENTRATED PROTEOLITIC ENZYMES

ANALYSIS

TOTAL SOLIDS	Min. 95%
ENZYMATIC UNIT	8000
pH SOLUTION 1:10	5.5 - 6.5

PROPERTIES AND APPLICATIONS

PROENZYM C-80 CONC is a light beige powder containing a particular balanced blend of proteolytic enzymes including pancreatic protease that ensure a safe and extremely efficient action.

PROENZYM C-80 CONC is distributed in a particular high protective vacuum packing of one (1) kg each that ensure a long shelf-life and a very easy handling.

With PROENZYM C-80 CONC, due to its wide proteolytic activity, pelts obtained are extremely elastic and uniform and, thanks to its scuding power, grain will be clean and fine and not effected in tightness.

PROENZYM C-80 CONC can be applied in the normal condition as all the pancreatic origin enzymes at pH about 7.5 just taking care on the percentage to be applied for the high concentration of the product.

SUGGESTED PERCENTAGES OF USE

On bovine for wet-blue production	0.02 - 0.04% on pelt weight
On sheepskins for garment production	0.06 - 0.08% on pelt weight
On goatskins for upper or vegetable production	0.08 - 0.1% on pelt weight
On pigskins for wet-blue production	0.15 – 0.2% on pelt weight

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PROENZYM MA

BATING AGENT FOR ACID BATHS

ANALYSIS

TOTAL SOLIDS	Min. 96%
ENZIMATIC UNIT	1500
pH SOLUTION 1:10	7.5 - 8.5

PROPERTIES AND APPLICATIONS

PROENZYM MA is an enzyme bating agent which gives good results in the more acidic range than normal at ambient temperatures.

PROENZYM MA is also recommended for the bating of pickled skins after depickling for further softening.

PROENZYM MA is recommended to promote wetting-back and relaxing of wet-blue leathers which dried during storage.

SUGGESTED PERCENTAGES OF USE

Bate for goat/sheepskins	0.6 - 1.0% on pickled weight in depickling bath keeping pH range 5.0 - 5.5
Wet-back and relaxing Wet-blue leathers	1 - 3% on shaved weight in soaking bath pH range 5.0 - 5.5

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IDROIL IPV

BLEND OF ANIMAL FATS AND SULPHITED FISH OILS

ANALYSIS

ACTIVE SUBSTANCE	94 - 96%
ACID STABILITY	LOW
LIGHTFASTNESS	LOW
pH SOLUTION 1:10	6.5 - 7.5

PROPERTIES AND APPLICATIONS

IDROIL IPV is a blend of fats and sulphited fish oils which has the appearance of a hard paste at low temperature. The physical nature of its various compounds, can cause a separation effect; it is advisable to store the product in a warm environment (35-40°C) and to stir it before use.

IDROIL IPV has been developed for the "vacchetta" fatliquoring of vegetable tanned leather and it can also be used either after dry pressure which is the normal system and in short float taking care that pH value will not be below 4.5.

SUGGESTED PERCENTAGES OF USE

In vegetable fatliquor on	8 - 14% on pressed weight dried "vacchetta" add the product non emulsified and dry run up to 38 - 40° C
In vegetable fatliquor on "vacchetta" in float	6 - 10% on shaved weight

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IDROIL OPB - 10

NATURAL CRUDE OIL

ANALYSIS

IODINE VALUE	80.0 – 95.0
FREE FATTY ACIDITY (as Oleic acid)	max. 1.0%

PROPERTIES AND APPLICATIONS

IDROIL OPB-10 is a special crude natural oil of liquid aspect and light yellow coloured. It has acidity less than 1% and solidification point around -10°C . Those physical-chemical characteristics allow storage even at low temperature.

IDROIL OPB-10 can be used in the fatliquoring of suede-splits, to which it gives a good feel and deep dyeing shades.

IDROIL OPB-10 is normally used during the fatliquor process for the production of vegetable sole-leather and it imparts a smooth and warm touch, improving the typical dry touch of this kind of tannage.

SUGGESTED PERCENTAGES OF USE

In fatliquor process 5 - 10% on total fatliquor weight according to the article required

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IDROIL PA/X

BLEND OF ANIMAL FATS AND OILS WITH SOFTENING EFFECT

ANALYSIS

ACTIVE SUBSTANCE	84 - 86%
ACID STABILITY	LOW
LIGHTFASTNESS	LOW
pH SOLUTION 1:10	6.5 - 7.5

PROPERTIES AND APPLICATIONS

IDROIL PA/X is a blend of fats and sulphited fish oils. It has the appearance of semifluid paste at low temperature. It is suggested to storage in warm environment (35 – 40°C) and stir well before use in consideration of its chemical nature and components.

IDROIL PA/X has been developed for fatliquoring of vegetable tanned leather “vacchetta type” and can be used with classic system after samming, or in short bath paying particular attention to the leather pH that has to be no lower than 4.5

SUGGESTED PERCENTAGES OF USE

No float fatliquor for vegetable tannage	8 - 14% on pressed weight add the non-emulsified product and dry run till 38-40°C
Fatliquor for vegetable tannage in water	6 - 10% on shaved weight

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IDROL 6NB

SULPHATED NEATSFOOT OIL

ANALYSIS

ACTIVE SUBSTANCE	78-82%
CHROME STABILITY	LOW
ACID STABILITY	GOOD
LIGHTFASTNESS	EXCELLENT
pH 1:10 SOLUTION	6.3 - 7.3

PROPERTIES AND APPLICATIONS

IDROL 6NB is a brown limpid fluid easily emulsionable in water at 50-60°C in all portion.

IDROL 6NB, like mostly sulphated fatliquors, is not stable to electrolytes, therefore if used in combination with natural tannins, syntans and anionic retanning agent, the operator has to evaluate the stability of the emulsion.

IDROL 6NB has a good capacity to link to the leathers allowing high bath exhaustion and at the same time to produce leathers with fine and silky grain and full and soft hand.

IDROL 6NB is particularly recommended for processing valuable articles such as suede and box-calf improving dyeing brightness.

SUGGESTED PERCENTAGES OF USE

In fatliquor process	3,0 – 6,0% on shaved weight in combination with other fatliquors in consideration of article required.
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IDROL 8NB

FATLIQUOR TYPE OF SULPHATED NEATSFOOT OIL

ANALYSIS

ACTIVE MATTER	60.0-65.0%
ACID STABILITY	GOOD
ELECTROLITES STABILITY	LOW
CHROME STABILITY	LOW
LIGHTFASTNESS	GOOD
pH 1:10 SOLUTION	6.4-7.6

PROPERTIES AND APPLICATIONS

IDROL 8NB is a brown-orange limpid fluid easily emulsionable in water at 50-60°C in all portion.

IDROL 8NB works as a good substitute of neatsfoot oil thanks to its chemical composition based on natural sulphurized fatliquors and synthetic oils. IDROL 8NB allows a good penetration and control repousses.

IDROL 8NB, like mostly sulphated fatliquors, is not stable to electrolytes, therefore if used in combination with natural tannins, syntans and anionic retanning agent, the operator has to evaluate the stability of the emulsion.

IDROL 8NB has a good capacity to link to the leathers allowing high bath exhaustion and at the same time to produce leathers with fine and silky grain and full and soft hand.

IDROL 8NB is particularly recommended for processing valuable articles such as suede and box-calf improving dyeing brightness.

SUGGESTED PERCENTAGES OF USE

In fatliquor process	3,0 – 6,0% on shaved weight in combination with other fatliquors in consideration of article required
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IDROL 51H

SYNTHETIC SULPHATED FATLIQUOR

ANALYSIS

ACTIVE SUBSTANCE	66 - 70%
CHROME STABILITY	LOW
ACID STABILITY	GOOD
ELECTROLYTES STABILITY	LOW
pH 1:10 SOLUTION	5.9 - 7.1

PROPERTIES AND APPLICATIONS

IDROL 51H is an orange-brown limpid fluid easily emulsionable in water at 50-60°C in all portion.

IDROL 51H, like mostly sulphated fatliquors, is not stable to electrolytes, therefore if used in combination with natural tannins, syntans and anionic retanning agent, the operator has to evaluate the stability of the emulsion.

IDROL 51H has a good capacity to link to the leathers allowing high bath exhaustion and at the same time to produce leathers with fine and silky grain and full and soft hand.

IDROL 51H used on suede articles, helps the buffing so for that improves dyeing brightness.

SUGGESTED PERCENTAGES OF USE

In fatliquor process	3,0 – 6,0% on shaved weight in combination with other fatliquors in consideration of article required.
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IDROL GC/70

FISH AND SYNTHETIC SULPHATED OILS

ANALYSIS

ACTIVE SUBSTANCE	72 - 76%
ACID STABILITY	GOOD
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	6.4 - 7.6

PROPERTIES AND APPLICATIONS

IDROL GC/70 is a limpid brown fatliquor based on fish and synthetic sulphated oils with good lightfastness and an easy emulsion in water at low temperature.

IDROL GC/70, thanks to its uniform and deep penetration properties, is able to give firm grain, full handle and a good softness, particular characteristics required for footwear articles.

IDROL GC/70 when used together with sulphited oils, gives to the leathers excellent softness and fullness, ideal characteristics for chrome leather for upholstery and garment articles.

IDROL GC/70 finds specific use on fatliquor for vegetable articles like vacchetta and sole-leather avoiding superficial oxidation risk and imparting to the leather a light colour and good buffing for pumiced articles.

SUGGESTED PERCENTAGES OF USE

In sole-leather fatliquor	2 - 3% on shaved weight emulsified 1:1 with water at 30 - 35°C
In vegetable fatliquor	3 - 5% on shaved weight blended with other fatliquor according to the article required
In chrome leather fatliquor for footwear articles	2 - 5% on shaved weight together with other oils according to the article required
In chrome leather fatliquor for upholstery articles	5.0 - 8.0% on shaved weight together with other sulphited oils

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IDROL GC/90

FISH AND SYNTHETIC SULPHATED OILS

ANALYSIS

ACTIVE SUBSTANCE	65,0% +/- 2
ACID STABILITY	GOOD
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	7,0 +/- 0,6

PROPERTIES AND APPLICATIONS

IDROL GC/90 is a limpid brown fatliquor based on fish and synthetic sulphated oils with good lightfastness and an easy emulsion in water at low temperature.

IDROL GC/90, thanks to its uniform and deep penetration properties, is able to give firm grain, full handle and a good softness, particular characteristics required for footwear articles.

IDROL GC/90 when used together with sulphited oils, gives to the leathers excellent softness and fullness, ideal characteristics for chrome leather for upholstery and garment articles.

IDROL GC/90 finds specific use on fatliquor for vegetable articles like vacchetta and sole-leather avoiding superficial oxidation risk and imparting to the leather a light colour and good buffing for pumiced articles.

SUGGESTED PERCENTAGES OF USE

In sole-leather fatliquor	2 - 3% on shaved weight emulsified 1:1 with water at 30 - 35°C
In vegetable fatliquor	3 - 5% on shaved weight blended with other fatliquor according to the article required
In chrome leather fatliquor for footwear articles	2 - 5% on shaved weight together with other oils according to the article required
In chrome leather fatliquor for upholstery articles	5.0 - 8.0% on shaved weight together with other sulphited oils

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IDROL L40

EMULSION OF OXYETHYLATED VEGETABLE OILS

ANALYSIS

ACTIVE SUBSTANCE	49 - 52%
LIGHTFASTNESS	MEDIUM
pH SOLUTION 1:10	6.5 - 7.5

PROPERTIES AND APPLICATIONS

IDROL L40 is an emulsion based on phospholipids, amphoteric in character, with the appearance of a yellow - brown homogeneous paste.

IDROL L40 is a classic fatliquor for clothing leathers made from hair-sheep, and soft bovine leathers requiring a smooth silky handle, low specific weight and a good feeling of fullness; essential characteristics for "quality nappa".

IDROL L40 is stable against rancidity, gives the leather a pleasant odour and produces a good emulsion in normal working conditions. The product is stable when mixed with other natural and synthetic sulphited and / or sulphonated oils. It is recommended to emulsify the product 1:3 with warm water ready for use; with sheep skins it can be added directly into the drum without emulsification.

SUGGESTED PERCENTAGES OF USE

For sheep and goat skins	4 - 6% on shaved weight together with other fatliquors
For bovine leathers	2 - 4% on shaved weight together with other fatliquors

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IDROL LB2

FATLIQUOR BASED ON LANOLIN AND SYNTHETIC OILS

ANALYSIS

ACTIVE SUBSTANCE	48 - 52%
ACID STABILITY	GOOD
HARD WATER STABILITY	GOOD
LIGHTFASTNESS	VERY GOOD
pH SOLUTION 1:10	6.4 - 7.6

PROPERTIES AND APPLICATIONS

IDROL LB2 is a creamy paste which can produce a stable emulsion in slightly acid ranges.

IDROL LB2 imparts to the leather a fairly good softness and a waxy feel keeping a firm and elastic grain and it can be used alone or together with other sulphonated or sulphited oils thanks to its emulsion capacity and compatability.

IDROL LB2 can be used in chrome tannage for soft footwear articles and for nubuck leathers.

IDROL LB2 is particularly ideal for vegetable leathers fatliquor for glazed and brushed articles.

SUGGESTED PERCENTAGES OF USE

Chrome nubuck fatliquor	3 - 4% on shaved weight together with a sulphonated fatliquor
Vegetable fatliquor for glazed	2 - 3% on shaved weight together with a sulphonated fatliquor
Chrome fatliquor for very soft article	4 - 5% on shaved weight together with sulphonated and sulphited fatliquor blend

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IDROL LCA

EMULSION OF OXYETHYLATED VEGETABLE OILS

ANALYSIS

ACTIVE SUBSTANCE	Min 40,0 %
LIGHTFASTNESS	MEDIUM
pH SOLUTION 1:10	6,0-7,0

PROPERTIES AND APPLICATIONS

IDROL LCA is an emulsion based on phospholipids, anionic in character, with the appearance of a brown yellow semifluid paste. It is recommended to emulsify before use in warm water at ratio 1:3

IDROL LCA is an excellent fatliquor for clothing leathers on sheepskins, and soft bovine leathers requiring a smooth silky handle, low specific weight and a good feeling of fullness; essential characteristics for "quality nappa

SUGGESTED PERCENTAGES OF USE

On sheep and goat skins	4-8% on shaved weight together with other fatliquors
On bovine leathers	2 - 6% on shaved weight together with other fatliquors

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IDROL LF

EMULSIFIED LANOLIN

ANALYSIS

ACTIVE SUBSTANCE	47 - 50%
LIGHTFASTNESS	MEDIUM
pH SOLUTION 1:10	5.8 - 6.8

PROPERTIES AND APPLICATIONS

IDROL LF is a creamy paste which can produce a stable emulsion in slightly acid ranges.

IDROL LF imparts to the leather a fairly good softness and a waxy feel keeping a firm and elastic grain and it can be used alone or together with other sulphonated or sulphited oils thanks to its emulsion capacity and compatability.

IDROL LF can be used in chrome tannage for soft footwear articles and for nubuck leathers.

IDROL LF is particularly ideal for vegetable leathers fatliquor for glazed and polished articles.

SUGGESTED PERCENTAGES OF USE

Chrome nubuck fatliquor	2 - 3% on shaved weight together with a sulphonated fatliquor
Vegetable fatliquor for glazed	2 - 3% on shaved weight together with a sulphonated fatliquor
Chrome fatliquor for very soft article	2 - 3% on shaved weight together with sulphonated and sulphited fatliquor blend

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IDROL NL

EMULSION OF OXYETHYLATED VEGETABLE OILS

ANALYSIS

ACTIVE SUBSTANCE	58.5 – 61.5%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	7.0 - 8.0

PROPERTIES AND APPLICATIONS

IDROL NL is an emulsion based on phospholipids, amphoteric in character, with the appearance of a yellow - brown homogeneous paste.

IDROL NL is a classic fatliquor for clothing leathers made from hair-sheep, and soft bovine leathers requiring a smooth silky handle, low specific weight and a good feeling of fullness; essential characteristics for "quality nappa".

IDROL NL is stable against rancidity, gives the leather a pleasant odour and produces a good emulsion in normal working conditions. The product is stable when mixed with other natural and synthetic sulphited and / or sulphonated oils. It is recommended to emulsify the product 1:3 with warm water ready for use; with sheep skins it can be added directly into the drum without emulsification.

SUGGESTED PERCENTAGES OF USE

For sheep and goat skins	4 - 6% on shaved weight together with other fatliquors
For bovine leathers	2 - 4% on shaved weight together with other fatliquors

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IDROL QS90

EMULSION OF OXYETHYLATED VEGETABLE OILS

ANALYSIS

ACTIVE SUBSTANCE	89 - 92%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	5.8 - 6.8

PROPERTIES AND APPLICATIONS

IDROL QS90 is an emulsion based on phospholipids, anionic in character, with the appearance of a dark brown paste.

IDROL QS90 is an excellent fatliquor for clothing leathers made from hair-sheep, and soft bovine leathers requiring a smooth silky handle, low specific weight and a good feeling of fullness; essential characteristics for "quality nappa".

SUGGESTED PERCENTAGES OF USE

For sheep and goat skins	4 - 6% on shaved weight together with other fatliquors
For bovine leathers	2 - 4% on shaved weight together with other fatliquors

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IDROL QS95

EMULSION OF OXYETHYLATED VEGETABLE OILS

ANALYSIS

ACTIVE SUBSTANCE	82 - 86%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	5.8 - 6.8

PROPERTIES AND APPLICATIONS

IDROL QS95 is an emulsion based on phospholipids, anionic in character, with the appearance of a dark brown paste.

IDROL QS95 allows to obtain articles with good lightfastness and light shade of retannage leathers. It guarantees good dyeability on light colours too.

IDROL QS95 is an excellent fatliquor for clothing leathers made from hair-sheep, and soft bovine leathers requiring a smooth silky handle, low specific weight and a good feeling of fullness; essential characteristics for "quality nappa".

SUGGESTED PERCENTAGES OF USE

For sheep and goat skins	4 - 6% on shaved weight together with other fatliquors
For bovine leathers	2 - 4% on shaved weight together with other fatliquors

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IDROPROOF WO

SPECIAL FATLIQUOR FOR WATERPROOF ARTICLES

ANALYSIS

ACTIVE SUBSTANCE	41.0-43.0%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	6.0-8.0

PROPERTIES AND APPLICATIONS

IDROPROOF WO is a beige fluid paste based on particular synthetic fatliquors combined with special emulsify agent, developed for production of waterproof articles in drum.

IDROPROOF WO is able to form very stable emulsion with good penetration grade and excellent levelling effect on dyes.

IDROPROOF WO can be used on all type or chrome retannage when fullness, roundness and firm grain are required.

SUGGESTED PERCENTAGES OF USE

For waterproof articles	8-10% on shaved weight
In fatliquors blends for soft articles	10-12 % together with other fatliquors

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IDROSIN EP-OC

SYNTHETIC FATLIQUOR BASED ON MODIFIED PHOSPHORIC ESTERS FOR SOFT ARTICLES

ANALYSIS

LIGHTFASTNESS	GOOD
Ph SOLUTION 1:10	7,0-8,0

PROPERTIES AND APPLICATIONS

IDROSIN EP-OC is brown anionic fatliquor based on phosphoric esters easily emulsify in water in cold water too.

IDROSIN EP-OC has a propriety to increase the emulsion of each oils when used in combination.

IDROSIN EP-OC give a very softy and silky feel; thank to these proprieties it is the ideal fatliquor for garment or upholstery.

IDROSIN EP-OC used on buffed leather, produce soft, bright and silky touch. It is ideal for double –face articles thanks to its low extraibility in solvent baths

SUGGESTED PERCENTAGES OF USE

In fatliquor process for soft articles	8 - 10% on shaved weight alone or in combination with other fatliquors in consideration of desired effect
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IDROSIN ET-75

FATLIQUOR BASED ON SYNTHETIC OIL

ANALYSIS

ACTIVE SUBSTANCE	Min. 50.0%
DRY RESIDUOS	45.0-48.0%
LIGHTFASTNESS	GOOD
Ph SOLUTION 1:10	6.0-7.0

PROPERTIES AND APPLICATIONS

IDROSIN ET-75 is a yellow-orange limpid anionic fatliquor easily emulsionable in water in all portions.

IDROSIN ET-75 give a very softy and very light feel.

IDROSIN ET-75 thanks to its properties it is the ideal fatliquor for garment or upholstery or pigskin suede/nubuck.

IDROSIN ET-75 has a property to increase the emulsion of each oils used in fatliquory.

IDROSIN ET-75 used on emery article gives a good touch and an excellent brightness.

SUGGESTED PERCENTAGES OF USE

In fatliquor process	6 - 10% on shaved weight alone or in combination with other fatliquors in consideration of desired effect
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IDROSIN HA-11F

SOFTENING POLYMER

ANALYSIS

ACTIVE SUBSTANCE	34.5 – 35.5%
LIGHTFASTNESS	EXCELLENT
pH 1:10 SOLUTION	5.0 - 5.8

PROPERTIES AND APPLICATIONS

IDROSIN HA-11F has a particular polymeric structure with lubricating and filling action. The product belongs to a new generation of chemicals really flexible in application, able to be applied in many different processes of production.

IDROSIN HA-11F imparts a warm and round “touch” to the leather. It can be applied to all the soft articles like “nappa”, garment, upholstery.

Being stable to the majority of the commercial polymers and syntans can be applied to all the articles for upper and fancy goods. Due to its water resistance characteristics can be employed also for waterproof articles

SUGGESTED PERCENTAGES OF USE

During retanning	from 2.0 – 6.0% blended with other polymers and/or syntans
During fatliquoring	from 4.0 up to 15% alone or in combination with other fatliquors.

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IDROSIN JJ

SYNTHETIC FATLIQUOR LUBRICATING AND TEAR-RESISTANCE AGENT FOR SOFT ARTICLE

ANALYSIS

LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	3.5 – 4.5

PROPERTIES AND APPLICATIONS

IDROSIN JJ is a viscous paste based on fatty acids particularly suitable for use in chrome tannage or retannage for all kinds of leathers.

IDROSIN JJ linking to fibrous material is able to give good interfibre lubrication and imparting more tensile strength and grain crack resistance.

IDROSIN JJ can also be used as a final fatliquor imparting to the leather a particularly silky feel and good handle. In this case the influence on leather physical resistance will be inferior.

SUGGESTED PERCENTAGES OF USE

In chrome tannage float	1.0-2.0% on pelt weight well emulsified in water and added together or after the last addition of chrome sulphate
In chrome retannage float	1.0-2.0% on shaved weight added after 30' running with the usual chrome retanning agent
In final fatliquor float	0.5-1.0% on shaved weight added in the exhausted float of fatliquors 20' running

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IDROSIN K05

SYNTHETIC ESTER

ANALYSIS

ACTIVE SUBSTANCE	48 – 52%
LIGHTFASTNESS	GOOD
pH 1:10 SOLUTION	5.8 - 6.6

PROPERTIES AND APPLICATIONS

IDROSIN K05 is a fatliquor of light colour with low viscosity and easily emulsifiable in water

IDROSIN K05 is a particular formulation based on synthetic esters able to impart to the leather softness, lightness and fine grain.

IDROSIN K05 has a good affinity with leather structure allowing good baths exhaustion.

IDROSIN K05, thanks to its particular chemical composition, can be used as unique fatliquor for upholstery, garment and nappa obtaining uniform dyeing on pale colour too.

SUGGESTED PERCENTAGES OF USE

In prefatliquoring of box-calf 1-2 % on shaved weight

Bovine leathers for upholstery 4-8% on shaved weight, in consideration of the article and desired effect

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IDROSIN KB60

SULPHONATED SYNTHETIC FATLIQUOR

ANALYSIS

ACTIVE SUBSTANCE	56,0 – 60,0%
ACID STABILITY	GOOD
LIGHTFASTNESS	EXCELLENT
CHROME STABILITY	MEDIUM
pH 1:10 SOLUTION	5.0 – 7.0

PROPERTIES AND APPLICATIONS

IDROSIN KB60 is a fatliquor of limpid colour with anionic charge.

IDROSIN KB60 is a particular formulation based on synthetic esters able to impart to the leather softness, fullness and uniformity during dyeing process.

IDROSIN KB60, thanks to its particular chemical composition, can be used as unique fatliquor or in blends with other fatliquors where characteristics of good lightfastness are required.

IDROSIN KB60 is recommended for upholstery and garment articles.

SUGGESTED PERCENTAGES OF USE

In retannage of chrome leather	4-12% on shaved weight in consideration of leather type and desired result.
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IDROSIN KJ

COMBINATION OF LONG CHAIN SYNTHETIC OILS AND ESTERS

ANALYSIS

ACTIVE SUBSTANCE	46.0-51.0%
pH SOLUTION 1:10	6.0-8.0

PROPERTIES AND APPLICATIONS

IDROSIN KJ is a completely synthetic fatliquor, stable in many different application conditions.

IDROSIN KJ can be used as the sole fatliquor during chrome tannage in the production of "Double face".

Leathers produced with IDROSIN KJ have a good softness and fullness, with a good spongy handle, low specific weight, good dyeability and touch.

IDROSIN KJ is particularly recommended for clothing leathers, leather goods and hair-on leathers and skins.

SUGGESTED PERCENTAGES OF USE

In chrome tannage	from 10 - 16% on pelt weight
In fatliquor mixes for sheep nappa	from 3 - 6% on shaved weight
In combination with natural oils for leather goods	from 4 - 8% on shaved weight

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IDROSIN OPB

SYNTHETIC NEATSFOOT OIL

ANALYSIS

CHLORINE TITLE	44.5 – 46.5%
LIGHT FASTNESS	EXCELLENT

PROPERTIES AND APPLICATIONS

IDROSIN OPB is a light yellow transparent limpid synthetic oil which replaces the natural neatsfoot oil and thanks to its chemical nature, has an excellent lightfastness.

IDROSIN OPB is insoluble in water but it can be easily emulsified either with the addition of both sulphited, sulphated and cationic oils and with every kind of wetting agents.

IDROSIN OPB can be used in the fatliquoring of suede-splits, to which it gives a good feel and deep dyeing shades.

IDROSIN OPB is normally used during fatliquor process for the production of vegetable sole-leather and it imparts a smooth and warm touch improving the typical dry touch of this kind of tannage.

SUGGESTED PERCENTAGES OF USE

In fatliquor process	5 - 10% on total fatliquor weight according to the article required
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IDROSIN OPB/E

EMULSIFIED SYNTHETIC NEATSFOOT OIL

ANALYSIS

ACTIVE SUBSTANCE	Min 98,0%
pH solution 1:10	4.0 – 5.5
LIGHT FASTNESS	GOOD

PROPERTIES AND APPLICATIONS

IDROSIN OPB/E is a light yellow transparent limpid synthetic oil which replaces the natural neatsfoot oil and thanks to its chemical nature, has an excellent lightfastness.

IDROSIN OPB/E is easily emulsified in water with sulphited, sulphated and cationic oils and with every kind of wetting agents.

IDROSIN OPB/E can be used in the fatliquoring of suede-splits, to which it gives a good feel and deep dyeing shades.

IDROSIN OPB is normally used during fatliquor process for the production of vegetable sole-leather and it imparts a smooth and warm touch improving the typical dry touch of this kind of tannage.

SUGGESTED PERCENTAGES OF USE

In fatliquor process 5 - 10% on total fatliquor weight according to the article required

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IDROSIN PHE

FATLIQUOR BASED ON MODIFIED SYNTHETIC PHOSPHORIC ESTERS

ANALYSIS

ACTIVE SUBSTANCE	Min. 62,0%
DRY RESIDUOS	52,0-55,0%
LIGHTFASTNESS	GOOD
STABILITY AT THE TANNING SALT, CHROME	GOOD
STABLE ELECTROLYTE	GOOD
Ph SOLUTION 1:10	6,0-7,0

PROPERTIES AND APPLICATIONS

IDROSIN PHE is anionic fatliquor of limpid amber-coloured stable to the electrolytes and to chrome salts, this it can be use in bath of tanning and retannage.

IDROSIN PHE does not make loose grain thanks to its chemical composition, it hasn't tendency to oxidization and it shows an excellent penetration into the fibres.

IDROSIN PHE has a propriety to increase the emulsion of each oils used in fatliquory.

IDROSIN PHE give a very softy and silky feel; thank to these proprieties it is the ideal fatliquor for gourment or upholstery.

IDROSIN PHE used on emery article gives a good touch and an excellent brightness it is the ideal for double face thanks to its very high resistance to solvent extractions.

SUGGESTED PERCENTAGES OF USE

In fatliquor process 6 - 10% on shaved weight

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IDROSIN PT

EMUSLION OF SYNTHETIC AND NATURAL OILS

ANALYSIS

ACTIVE SUBSTANCE	43.5 – 46.5%
ACID STABILITY	MEDIUM
LIGHTFASTNESS	EXCELLENT
pH 1:10 SOLUTION	6.7 - 7.3

PROPERTIES AND APPLICATIONS

IDROSIN PT is an anionic fatliquor based on emulsion of synthetic and natural oils, and it appears like a white-cream coloured paste able to produce a fine emulsion not completely stable in acid condition.

IDROSIN PT is able to produce waterproof article in a system including a final metal cap. In production of normal articles it can be applied like a traditional fatliquor improving the fullness, roundness and dyability of the retanned wet blue.

IDROSIN PT does not affect the adesion of finishing products.

SUGGESTED PERCENTAGES OF USE

Like unique fatliquor for waterproof articles	6.0 - 10% on shaved weight running 60'. x% formic acid to pH 3.3 - 3.4 running 30'. Drain, float. Metal cap: 100% water 40°C 3% chrome salt running 60', drain, wash
Like a traditional fatliquor for soft	4.0 - 6.0% on shaved weight in combination with other anionic fatliquor (sulphated or sulphited or synthetic)

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IDROSIN SC

ACID SULPHOCHLOROPARAFFIN

ANALYSIS

CLORE TITLE	29-31%
DENSITY 25°C	1,035-1,055 g/cm ³
LIGHTFASTNESS	GOOD

PROPERTIES AND APPLICATIONS

IDROSIN SC is a pure acid sulphochloroparaffin as a colourless or light yellow liquid insoluble in water.

IDROSIN SC finds its main use blended with other kinds of fatliquor as non sulphonated compound in substitution of natural oils.

IDROSIN SC helps to prevent fat spews, effect increasing leather tear strenght.

IDROSIN SC is used on neutralized leather after formaldehyde pretannage as tanning agent in oily tannage.

SUGGESTED PERCENTAGES OF USE

In fatliquor process	1.0 - 3.0% on shaved weight in combination with other oils
In tannage process	1.5 - 2.0% on shaved leather weight together with other fatliquor

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IDROSIN TA

SYNTHETIC FATLIQUOR BASED ON PHOSPHORIC ESTERS
AND SULPHOCHLORINATED PARAFINS

ANALYSIS

TOTAL SOLIDS AT 102°C	Min. 60%
ACTIVE SUBSTANCE	60 - 66%
ACID STABILITY	GOOD
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	7.0 - 8.0

PROPERTIES AND APPLICATIONS

IDROSIN TA is an anionic fatliquor with a clear brown appearance, stable to electrolytes and chrome salts, therefore can be used in the tanning bath or during the retannage.

IDROSIN TA does not produce spue in the leather, has no tendency to oxidise and has excellent penetrating capabilities.

IDROSIN TA helps to improve the emulsification of other types of fatliquors when used in combination with other products.

IDROSIN TA promotes leathers with good mellowness, lightness and silky touch; these properties make it an ideal fatliquor for upholstery leathers.

IDROSIN TA used on buffed leathers, produces a kind touch and a brilliance and silkiness. It is also ideal for double-face leathers due to its low extractability in solvent washing.

SUGGESTED PERCENTAGES OF USE

Fatliquor of soft leathers 6 - 8% on shaved weight alone or in combination with other fatliquors as required.

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IDROSIN TA/E

SYNTHETIC FATLIQUOR BASED ON PHOSPHORIC ESTERS
AND SULPHOCHLORINATED

ANALYSIS

ACTIVE SUBSTANCE	45 - 48%
ACID STABILITY	GOOD
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	6.5 - 7.5

PROPERTIES AND APPLICATIONS

IDROSIN TA/E is a light brown limpid anionic fatliquor easily soluble.

IDROSIN TA/E imparts good softness, high lightness and silky touch: these properties make it an ideal fatliquor for upholstery leathers.

IDROSIN TA/E helps to improve the emulsification of other types of fatliquors when used in combination with other products.

IDROSIN TA/E does not produce spue in the leather, has no tendency to oxidise and has excellent penetrating capabilities.

IDROSIN TA/E used on buffed leathers, produces a kind touch and a brilliance and silkiness. It is also ideal for double-face leathers due to its low extractability in solvent washing.

SUGGESTED PERCENTAGES OF USE

Fatliquor of soft leathers	5 - 8% on shaved weight alone or in combination with other fatliquors as required.
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IDROSIN VB/8

SULPHATED SYNTHETIC FATLIQUOR

ANALYSIS

ACTIVE SUBSTANCE	82.0-86.0 %
pH 1:10 SOLUTION	6.5 - 7.5

PROPERTIES AND APPLICATIONS

IDROSIN VB/8 is a sulphated synthetic limpid dark oil not stable in presence of acids and chrome salts.

IDROSIN VB/8 is easily emulsionable in water, with sulphited oils and surfactants.

IDROSIN VB/8 can be used in fatliquoring of articles like vacchetta giving a fatty touch

SUGGESTED PERCENTAGES OF USE

In fatliquoring process 5 - 12% on total fatliquor weight in consideration of characteristics of required article.

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IDROSIN WL/L

EMULSION OF NATURAL AND SYNTHETIC OILS

ANALYSIS

ACTIVE SUBSTANCE	43 - 47%
ACID STABILITY	MEDIUM
CHROME STABILITY	LOW
LIGHTFASTNESS	EXCELLENT
pH SOLUTION 1:10	6.9 - 8.1

PROPERTIES AND APPLICATIONS

IDROSIN WL/L is an emulsion of natural and synthetic oils with medium stability to acids.

IDROSIN WL/L has a high affinity for leather, when small percentages of IDROSIN WL/L are mixed with other fatliquors improved exhaustion of the bath is obtained.

IDROSIN WL/L can be used on full grain or suede to produce soft and lightweight leathers. It is therefore ideal for "Clothing" and "Upholstery" leathers.

IDROSIN WL/L, due to its ability to improve the distribution of fatliquors, helps to produce uniform colours and is also suitable for pastel shades.

SUGGESTED PERCENTAGES OF USE

In pre-fatliquor of garment leather	2 - 3% on shaved weight
On suede leathers, at the end of fatliquor after acidification	1 - 2% on shaved weight
On upholstery leathers	2 - 3% on shaved weight, blended with other fatliquors

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IDROSOFT KAT/20

CATIONIC FATLIQUOR

ANALYSIS

ACTIVE SUBSTANCE	48-50%
CHARGE	CATIONIC
pH SOLUTION 1:10	4,5-5,5

PROPERTIES AND APPLICATIONS

IDROSOFT KAT/20 is a fatliquor at cationic charge based on emulsified fatty substances. It has the appearance of pale paste emulsified in water at temperature over 50°C.

IDROSOFT KAT/20 thanks to its particular composition can be used in retannage for making uniform the lather surface. It is also used when full and round hand with silky and superficial waxes effect are required. When required it can improve pull-up effect.

IDROSOFT KAT/20 is particularly recommended for brush-off articles on chrome leather too.

IDROSOFT KAT/20 is suitable for production of vegetable articles.

SUGGESTED PERCENTAGES OF USE

In retannage	2-4% on shaved weight at the end of fatliquoring and in consideration of desired effect
	8-10% as unique fatliquor for particular articles.

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IDROSOFT SAVE GI 98

CATIONIC LUBRICATING AND TEAR-RESISTANCE AGENT

ANALYSIS

ACTIVE MATTER	13.0-17.0%
CHARGE	CATIONIC
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	2.8 – 3.6

PROPERTIES AND APPLICATIONS

IDROSOFT SAVE GI 98 is a cationic viscous paste based on fatty acids particularly suitable for use in chrome tannage or retannage for all kinds of leathers.

IDROSOFT SAVE GI 98 linking to fibrous material is able to give good interfibre lubrication and imparting more tensile strength and grain crack resistance.

IDROSOFT SAVE GI 98 can also be used as a final cationic fatliquor imparting to the leather a particularly silky feel and good handle. In this case the influence on leather physical resistance will be inferior.

SUGGESTED PERCENTAGES OF USE

In chrome tannage float	1.0-2.0% on pelt weight well emulsified in water and added together or after the last addition of chrome sulphate
In chrome retannage float	1.0-2.0% on shaved weight added after 30' running with the usual chrome retanning agent
In final fatliquor float	0.5-1.0% on shaved weight added in the exhausted float of fatliquors 20' running

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IDROSOL BOM

BLEND OF SYNTHETIC AND SULPHITED NATURAL OILS

ANALYSIS

ACTIVE SUBSTANCE	74 - 78%
ELECTROLYTES STABILITY	EXCELLENT
LIGHTFASTNESS	EXCELLENT
ACID STABILITY	GOOD
CHROME STABILITY	GOOD
pH SOLUTION 1:10	6.3 - 7.3

PROPERTIES AND APPLICATIONS

IDROSOL BOM is a limpid, fluid yellowish-orange blend of synthetic and sulphited oils.

IDROSOL BOM imparts to leathers good softness and dry hand thanks to its good penetration properties.

IDROSOL BOM in consideration of its wide application of use is excellent for very soft articles production such as garment nappa and upholstery.

IDROSOL BOM thanks to its excellent lightfastness and to its capacity to fix itself on leather fibres structure with low extraibility and migrability is an ideal fatliquor for splits to be finished "by-cast" and for all kind of leathers to be finished with products of organic solvents base.

SUGGESTED PERCENTAGES OF USE

In fatliquor process for garment leather articles	8 - 10% on shaved weight in combination with other touch oils according to the article required
In fatliquor process for upholstery leather articles	10 - 12% on shaved weight in combination with a sulphated fatliquor according to the article required
In fatliquor process for splits	6 - 8% on shaved weight

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IDROSOL M/1

BLEND OF SYNTHETIC AND SULPHITED FISH OIL

ANALYSIS

ACTIVE SUBSTANCE	70 - 75%
ACID STABILITY	MEDIUM
CHROME STABILITY	GOOD
LIGHTFASTNESS	MEDIUM
pH SOLUTION 1:10	6.5 - 7.5

PROPERTIES AND APPLICATIONS

IDROSOL M/1 is a blend of sulphited natural and synthetic oils, having a brown colour and being easily emulsified in warm water.

IDROSOL M/1 can be used alone or in combination with other fatliquors for chrome and vegetable leathers.

IDROSOL M/1 can be used in a variety of blends for many purposes but is ideal where economical soft leathers are required.

SUGGESTED PERCENTAGES OF USE

During fatliquor 3 - 6% on shaved weight in combination with natural and synthetic sulphated oils according to article required

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IDROSOL S

NATURAL SULPHITED OILS NATURAL SUBSTITUTE OF SPERM OIL

ANALYSIS

ACTIVE SUBSTANCE	58 - 62%
ACIDS STABILITY	GOOD
CHROME STABILITY	NOT STABLE
LIGHTFASTNESS	EXCELLENT
pH SOLUTION 1:10	6.3 - 7.5

PROPERTIES AND APPLICATIONS

IDROSOL S is an excellent substitute of natural sperm oil. It has a yellow-orange colour and it gives a thin, semi-transparent and very good stable emulsion, suitable as fatliquor for chrome and vegetable tannage.

IDROSOL S emulsifies good percentages of crude oils imparting to the leather a soft , full, deep and greased handle.

IDROSOL S is successfully used in blend with natural and sulphated oils, for fine and soft articles such as garments, leather goods, suedes of high quality and in limited quantity for those articles to be glazed.

IDROSOL S thanks to its excellent lightfastness, it is normally used during soft white leather production.

SUGGESTED PERCENTAGES OF USE

During fatliquor	2 - 5% on shaved weight in combination with other oils according to the article required
During chrome tannage	0.5% on pelt weight together with tanning material

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IDROSOL SPM

SULPHITED DEODORISED FISH OIL

ANALYSIS

ACTIVE SUBSTANCE	67 - 72%
ACID STABILITY	GOOD
CHROME STABILITY	GOOD
LIGHTFASTNESS	GOOD
pH SOLUTIN 1:10	6.0 - 7.0

PROPERTIES AND APPLICATIONS

IDROSOL SPM is limpid fluid, light orange-brown in appearance, easily emulsifiable in cold and hot water in all proportions.

IDROSOL SPM thanks to its particularly chemical formulation, is an high quality fish oil with low odour, and can grant excellent fullness and good softness having a good capacity to connect with the leather structure.

IDROSOL SPM can be used for nappa leathers, gloves, and every leather requiring softness.

SUGGESTED PERCENTAGES OF USE

In fatliquor of garment and upholstery 2.0 - 10.0% on shaved weight in combination with other oils as required

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IDROSOL T/65

NATURAL SULPHITED OIL

ANALYSIS

ACTIVE SUBSTANCE	63 - 67%
CHROME STABILITY	GOOD
ACID STABILITY	GOOD
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	6.3 - 7.3

PROPERTIES AND APPLICATIONS

IDROSOL T/65 is a blend of oxidised and sulphited fish oils and it appears like an amber fluid and has a good softening power.

Due to its stability and good penetration IDROSOL T/65 can be employed like prefatliquor in recroming and main fatliquor for soft articles like upholstery, split, suede, nappa.

Thanks to its particular formulation IDROSOL T/65 does not influence too much the deepness of colours.

SUGGESTED PERCENTAGES OF USE

In recroming 1 - 2% on shaved weight

In fatliquoring 4 - 8% alone or in combination with other fatliquors (natural, synthetic and crude oils)

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IDROSOL UP

SULPHITED FISH OIL

ANALYSIS

ACTIVE SUBSTANCE	78 - 82%
ACID STABILITY	GOOD
CHROME STABILITY	GOOD
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	6.4 - 7.4

PROPERTIES AND APPLICATIONS

IDROSOL UP is a light brown sulphited fish oil, opportunity treated to reduce to the minimum the characteristic fish odour.

IDROSOL UP, thanks to its particularly formulation, is able to impart a very good softness and full hand, and at the same time it helps the penetration of other natural and/or sulphated oil of the fatliquor blend.

IDROSOL UP, being stable to chrome salts, can be used in tanning and retanning without problem.

IDROSOL UP is a fatliquor suitable for all kind of leather, but it is particularly suitable for the production of bovine chrome upholstery, splits for industrial glove and nappa for shoes.

SUGGESTED PERCENTAGES OF USE

In chrome tannage	0.5 – 1% on pelt weight
In chrome retannage	1 – 2% on shaved weight
During fatliquoring for industrial glove	8 - 12% on shaved weight
Fatliquoring of upholstery	4 - 5% in chrome retannage on shaved weight
	8 – 12% as unique fatliquor on shaved weight based on the article required

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IDROSOL VR/6

BLEND OF NATURAL AND SYNTHETIC SULPHITED OILS

ANALYSIS

ACTIVE SUBSTANCE	64% +/-2
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	6.3 - 7.3

PROPERTIES AND APPLICATIONS

IDROSOL VR/6 is a blend of synthetic and natural sulphited oils extremely stable to electrolytes, with good penetration and light specific weight.

IDROSOL VR/6 has a wide possibility of application and thanks to its fibres crosslinking power, low extractability and good buffing effect can be employed for leather to be finished with solvent base system (by-cast-splits).

SUGGESTED PERCENTAGES OF USE

For garments fatliquoring	8 - 10% on shaved weight in combination with silky touch oils
For upper fatliquoring upholstery leather articles	4 - 8% on shaved weight in combination with a natural or crude oils
For split fatliquoring	6 - 10% on shaved weight

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LECOREN 200

COPOLYMER RETANNING AGENT

ANALYSIS

ACTIVE SUBSTANCE	36 - 40 %
LIGHTFASTNESS	GOOD
ACID STABILITY	GOOD
pH SOLUTION 1-10	5.5 - 7.5

PROPERTIES AND APPLICATIONS

LECOREN 200 is a copolymer particularly developed to improve the tightness and fullness in the low quality and empty wet-blue stock.

With the application of LECOREN 200 in re-chroming or after neutralisation, the wet-blue treated show a particular flat and fine grain and maintain the full characteristics of elasticity and softness of full chrome tanned leather.

Thanks to its goods lightfastness, LECOREN 200 can be applied for white or pastel shades articles.

SUGGESTED PERCENTAGES OF USE

In retannage 2 - 4% in rechroming or after neutralisation

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LECOREN 230

COPOLYMER RETANNING AGENT

ANALYSIS

ACTIVE SUBSTANCE	27 - 30 %
LIGHTFASTNESS	GOOD
ACID STABILITY	GOOD
pH SOLUTION 1-10	5.5 - 7.5

PROPERTIES AND APPLICATIONS

LECOREN 230 is a copolymer particularly developed to improve the tightness and fullness in the low quality and empty wet-blue stock.

With the application of LECOREN 230 in re-chroming or after neutralisation, the wet-blue treated show a particular flat and fine grain and maintain the full characteristics of elasticity and softness of full chrome tanned leather.

Thanks to its goods lightfastness, LECOREN 230 can be applied for white or pastel shades articles.

SUGGESTED PERCENTAGES OF USE

In retannage 2 - 4% in rechroming or after neutralisation

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LECOREN 716/F

ACRYLIC RESINS EMULSION

ANALYSIS

TOTAL SOLIDS	35-40 %
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	2,8-3,8

PROPERTIES AND APPLICATIONS

LECOREN 716/F is a synthetic retanning agent based on an emulsion of acrylic resins with a typical colloidal white colour.

LECOREN 716/F is readily soluble in water even at low temperatures and thanks to its stability to acids, to chrome, zirconium and aluminium salts, it can be added to the drum during the stages prior to neutralisation.

LECOREN 716/F is used not only as a tanning agent on pickled pelts but also as a retanning agent in the chrome bath giving in this case a particular fullness and firmness to the grain.

LECOREN 716/F thanks to its lightfastness, can be used as a retanning agent for the production of white leathers.

SUGGESTED PERCENTAGES OF USE

In tannage	2 - 3% on pelt weight in the pickle bath
In retannage	3 - 4% on shaved weight, 60' after the addition of chrome salts
In white leather retannage	4 - 5% on shaved weight before neutralisation

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LECOREN 747

SPECIAL RESINS FOR SOFT AND ROUND FEEL LEATHER

ANALYSIS

ACTIVE SUBSTANCE	20 - 22%
pH SOLUTION 1:10	6.5 - 7.5

PROPERTIES AND APPLICATIONS

LECOREN 747 is a polymery with high meculae weight .

LECOREN 747 can be used in retannage in combination with stuffing agents, syntans or fatliquors.

LECOREN 747 give a very full and firm leather with not risk at all of loose grain.

SUGGESTED PERCENTAGES OF USE

In retannage 3 - 6% on shaved weight depending on the article required

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LECOREN 800

ACRYLIC CO-POLYMER IN AQUEOUS SOLUTION

ANALYSIS

ACTIVE SUBSTANCE	Min. 38%
LIGHTFASTNESS	EXCELLENT
pH SOLUTION 1:10	5.0 - 7.0

PROPERTIES AND APPLICATIONS

LECOREN 800 is an acrylic retanning syntan of high active content with low viscosity, with the appearance of a pale yellow liquid.

LECOREN 800 is perfectly compatible with syntans and vegetable extracts used in retannage, also fatliquors and anionic dyes. The product has excellent stability over a wide pH range and other electrolytes, due to its amphoteric nature it is very versatile in its use.

LECOREN 800 applied in retannage confers excellent lightfastness to the leather and does not degrade the dye shade.

LECOREN 800 is recommended as a universal retanning agent to produce leathers with guaranteed fullness and extremely soft handle.

LECOREN 800 can be used for the production of soft leathers for clothing and due to its excellent lightfastness it is ideal for pastel shades.

SUGGESTED PERCENTAGES OF USE

In retannage 2 - 4% on shaved weight to produce the desired effect.

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LECOREN 940

ACRYLIC POLYMER

ANALYSIS

ACTIVE SUBSTANCE	38 - 42%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	5.5 - 7.5

PROPERTIES AND APPLICATIONS

LECOREN 940 is an acrylic retanning agent with a strong anionic charge, unstable at pH's lower than pH 3.8, and incompatible with mineral tanning agents.

LECOREN 940 has a transparent brown colour, and can be used with vegetable extracts or syntans.

LECOREN 940 is therefore used as a retanning agent on chrome leathers after neutralization before, or in combination with, natural tannins or syntans.

LECOREN 940, thanks to its chemical nature, imparts a mellow handle to the leather with softness and fullness, also with a fine tight grain.

LECOREN 940 can be used in the retannage of white leathers because it has good lightfastness.

LECOREN 940 can be fixed by bringing the pH at the end of the retannage to 3.8 - 4.0.

SUGGESTED PERCENTAGES OF USE

In the retannage 3 - 5% on shaved weight

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LECOREN AC6

COPOLYMER RETANNING AGENT

ANALYSIS

ACTIVE SUBSTANCE	29,0 +/- 2,0 %
LIGHTFASTNESS	GOOD
ACID STABILITY	GOOD
pH SOLUTION 1-10	5.5 - 7.5

PROPERTIES AND APPLICATIONS

LECOREN AC6 is a copolymer particularly developed to improve the tightness and fullness in the low quality and empty wet-blue stock.

With the application of LECOREN AC6 in re-chroming or after neutralisation, the wet-blue treated show a particular flat and fine grain and maintain the full characteristics of elasticity and softness of full chrome tanned leather.

Thanks to its goods lightfastness, LECOREN AC6 can be applied for white or pastel shades articles.

SUGGESTED PERCENTAGES OF USE

In retannage 2 - 4% in rechroming or after neutralisation

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LECOREN DR EXTRA

ANIONIC RETANNAGE BASED ON DICYANDIAMIDE RESIN

ANALYSIS

TOTAL SOLIDS	min 92.0%
LIGHTFASTNESS	GOOD
pH SOLUTION 10%	6.0 – 8.0

PROPERTIES AND APPLICATIONS

LECOREN DR EXTRA is a retanning agent based on dicyandiamide resin, easily soluble in water, unstable in acid environment.

LECOREN DR EXTRA promotes a selective filling action for spongy areas giving a even full leather with thight and flexible grain, ready for a good buffing effect.

LECOREN DR EXTRA can be employed during retannage of chrome or full vegetable leather, alone or in combination with other retanning agent.

SUGGESTED PERCENTAGES OF USE

In retannage of chrome or vegetable leathers 2 - 5% on shaved weight

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LECOREN LTX

HIGH MOLECULAR WEIGHT POLYMER

ANALYSIS

ACTIVE SUBSTANCE	22.0-25.0%
DRY MATTER	19.0 – 22.0%
pH SOLUTION 1:10	4,5-5,0

PROPERTIES AND APPLICATIONS

LECOREN LTX is a dense transparent liquid easily soluble, stable in all pH conditions.

LECOREN LTX in consideration of its chemical characteristics can be used as retannage and fatliquor of chrome leathers when fullness, roundness, firmness and very fine grain are required.

LECOREN LTX guarantees an excellent fibres lubrication and helps to produce waterproof articles.

LECOREN LTX can be used in combination with synthetic and vegetable retanning agent, fatliquors and anionic dyestuffs.

SUGGESTED PERCENTAGES OF USE

In retannage 2-4% on shaved weight in consideration of desired effect

Mod. L11 Ed. 1 del 22.03.11

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LECOREN M12

RETANNING AGENT WITH FILLING EFFECT

ANALYSIS

DRY MATTER	89,0 –94,0 %
pH SOLUTION 2%	5,5 – 7,0

PROPERTIES AND APPLICATIONS

LECOREN M12 is a retanning agent based on a nitrogen containing resin.

LECOREN M12 can be employed during retannage of chrome or full vegetable leather, alone or in combination with other retanning agent it promote a selective filling action for spongy areas giving a even full leather with thight and flexible grain, ready for a good buffing effect.

SUGGESTED PERCENTAGES OF USE

In retannage of chrome or vegetable leathers 2 - 5% on shaved weight

Mod. L11 Ed. 2 del 02.03.09

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LECOREN ML CONC

MELAMINE BASED RETANNING AGENT

ANALYSIS

DRY RESIDUAL AT 102°c	Min. 90%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	6.0 – 8.0

PROPERTIES AND APPLICATIONS

LECOREN ML CONC is an anionic melamine resin based re-tanning agent with excellent solubility in water.

LECOREN ML CONC can be used after neutralisation alone or in combination with other anionic re-tanning agents of moderate acidity imparting good fullness and elasticity to the leathers without hardening it.

The leathers re-tanned with LECOREN ML CONC maintain a mellow and fluffy structure even if treated at hot temperature in drying, ironing or embossing.

SUGGESTED PERCENTAGES OF USE

In re-tannage	2 - 4% on shaved weight
In fatliquoring	1 - 3% on shaved weight before or after fatliquor emulsion

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LECOREN MN

MELAMINE BASED RETANNING AGENT

ANALYSIS

TOTAL SOLIDS AT 102°C	Min. 90%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	7.5 - 9.0

PROPERTIES AND APPLICATIONS

LECOREN MN is an anionic melamine resin based re-tanning agent.

LECOREN MN is used after neutralisation alone or in combination with other anionic re-tanning agents of moderate acidity.

LECOREN MN provide a good selective filling action, excellent fullness and fixes the elasticity of the leather without hardening it.

The leathers re-tanned with LECOREN MN maintain a mellow and fluffy structure even if treated at hot temperature in drying, ironing or embossing.

SUGGESTED PERCENTAGES OF USE

In re-tannage 2 - 4% on shaved weight

In fatliquoring 1 - 3% on shaved weight before or after fatliquor emulsion

Mod. L11 Ed. 3 del 09.12.08

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LECOREN N/22

STYRENE COPOLYMER

ANALYSIS

ACTIVE SUBSTANCE	17 - 20%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	6.2 - 7.2

PROPERTIES AND APPLICATIONS

LECOREN N/22 is an anionic resin based on styrene copolymer in an aqueous solution with a light yellow colour, easily dilutable in water.

LECOREN N/22 is used to retain the chrome and vegetable-tanned leathers to produce articles with a fine grain and where it is necessary to obtain a particular softness and elasticity.

LECOREN N/22 has the capacity of levelling and compacting the fibrous structure of the leathers and for this reason it can be used for velour leathers.

SUGGESTED PERCENTAGES OF USE

In retannage 4 - 5% on shaved weight

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LECOREN OP

SPECIAL POLYMER RETANNING AGENT

ANALYSIS

ACTIVE SUBSTANCE	29 - 31%
pH SOLUTION 1-10	8.0 – 8.7
VISCOSITY	< 500cps
CHARGE	ANIONIC

PROPERTIES AND APPLICATIONS

LECOREN OP is a particular polymer with filling and bleaching effect.

LECOREN OP is particularly recommended for white by-cast splits and every time fullness, closed fibres, bleaching and matt effect are required.

LECOREN OP used on full grain allows clearer and brighter dyeing compared to other acrylic retanning agent.

SUGGESTED PERCENTAGES OF USE

In retannage 2 - 4% on shaved weight

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LECOREN PVA

POLYVINYLIC RESIN

ANALYSIS

pH SOLUTION 1:10	6.5 - 7.5
ASPECT	Slightly pink viscous liquid

PROPERTIES AND APPLICATIONS

LECOREN PVA is a slightly pink viscous fluid based on 100% vinyl resin.

LECOREN PVA, used in the retannage, is compatible with all kind of chrome tanned leathers. In case of vegetable retannages it is recommended to exhaust the baths before its use.

LECOREN PVA in consideration of its chemical characteristics, it is ideal as retannage of chrome leather when excellent fullness and firmness with fine grain and spongy filling are required.

LECOREN PVA is also highly recommended for split impregnation when a very even buffing is required.

SUGGESTED PERCENTAGES OF USE

In retannage after neutralisation	2 - 6% on shaved weight in consideration of desired effect
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LECOREN TM 30

RETANNING POLIMER COMPOUND

ANALYSIS

ACTIVE SUBSTANCE	28 - 32%
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	8.0 – 9.0

PROPERTIES AND APPLICATIONS

LECOREN TM 30 is an anionic resin based on a polymer in an aqueous solution with a light yellow colour, easily dilutable in water.

LECOREN TM 30 is used to retan the chrome and vegetable-tanned leathers to produce articles with a fine grain and where it is necessary to obtain a particular softness and elasticity.

LECOREN TM 30 has the capacity of levelling and compacting the fibrous structure of the leathers and for this reason it can be used for velour leathers.

LECOREN TM 30 can be used together with other anionic products such as syntans, fatliquors and dyestuffs

SUGGESTED PERCENTAGES OF USE

In retannage 4 - 5% on shaved weight

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LECOREN VEG

ACRYLIC POLYMER IN COMBINATION WITH AMINE
DERIVATES AND TANNINS CONDENSED

ANALYSIS

TOTAL SOLIDS	MIN 33 %
LIGHTFASTNESS	EXCELLENT
ELECTROLYTES STABILITY	MEDIUM-GOOD
ACID STABILITY	GOOD
pH SOLUTION 1:10	5.5 - 6.5

PROPERTIES AND APPLICATIONS

LECOREN VEG is a dark brown dense liquid based on a polymer containing acrylic-amine component and tannins condensed.

LECOREN VEG is able to guarantee a good fullness and softness with rubber touch imparting excellent dyeability condition presenting a uniform and well define grain.

LECOREN VEG thanks to its particular condensation is highly selective on those empty parts of the leather.

LECOREN VEG is perfectly compatible with vegetable extract and syntans normally used in retannage and it can be used in retannage together with fats and anionic dyestuffs.

SUGGESTED PERCENTAGES OF USE

In retannage from 2 to 4% on shaved weight in consideration of desired article

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LECOSIN RD-2

ANIONIC SYNTAN BASED ON DICYANDIAMIDE RESIN

ANALYSIS

TOTAL SOLIDS	min 92.0%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	8.2+/- 1,0

PROPERTIES AND APPLICATIONS

LECOSIN RD-2 is a retanning agent based on a nitrogen containing resin, easily soluble in water, unstable in acid environment.

LECOSIN RD-2 can be employed during retannage of chrome or full vegetable leather, alone or in combination with other retanning agent it promote a selective filling action for spongy areas giving a even full leather with thight and flexible grain, ready for a good buffing effect.

SUGGESTED PERCENTAGES OF USE

In retannage of chrome or vegetable leathers 2 - 5% on shaved weight

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LECOSIN RD-3

ANIONIC RETANNING SYNTAN BASED ON DICYANDIAMIDE RESIN

ANALYSIS

TOTAL SOLIDS Min.92 %
pH SOLUTION 2% 9.5 – 10.5

PROPERTIES AND APPLICATIONS

LECOSIN RD-3 is a retanning agent based on dicyandiamide resin, easily soluble in water, unstable in acid environment.

LECOSIN RD-3 can be employed during retannage of chrome or vegetable leather, alone or in combination with other retanning agent it promote a selective filling action for spongy areas giving a even full leather with thight and flexible grain, ready for a good buffing effect.

SUGGESTED PERCENTAGES OF USE

In chrome or vegetable retannage 2 - 5% on shaved weight

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LECOSIN RD-4

ANIONIC RETANNING AGENT BASED ON DICYANDIAMIDE RESIN

ANALYSIS

TOTAL SOLIDS Min.92 %
pH SOLUTION 2% 9.5 – 10.5

PROPERTIES AND APPLICATIONS

LECOSIN RD-4 is a retanning agent based on dicyandiamide resin, easily soluble in water, unstable in acid environment.

LECOSIN RD-4, thanks to its balanced chemical composition and to its high concentration of active principles, it is able to impart excellent fullness; it has filling action on spongy areas and it guarantees a good softness.

LECOSIN RD-4 can be employed during retannage of chrome or vegetable leather, alone or in combination with other retanning agents.

LECOSIN RD-4 is suitable for articles to be drummed. It is able to maintain a very firm and elastic grain at the same time.

SUGGESTED PERCENTAGES OF USE

In chrome or vegetable retannage 2 - 5% on shaved weight

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LECOSIN 1A

SYNTHETIC-NATURAL RETANNING AGENT WITH FILLING EFFECT

ANALYSIS

TOTAL SOLIDS	94 - 96%
pH SOLUTION 2%	3.0 – 3.5

PROPERTIES AND APPLICATIONS

LECOSIN 1A is an atomised powder particularly developed for chrome leather retannage. It can be used before neutralisation for production of full leathers with fine grain.

LECOSIN 1A can be used in combination with other tanning agent of vegetable nature: in this case as first, retannage with LECOSIN 1A followed by a neutralisation phase and a second retannage.

SUGGESTED PERCENTAGES OF USE

In retannage of wet-blue from 5 to 15% on shaved weight

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LECOSIN BN

RETANNING AGENT BASED ON ALLUMINIUM

ANALYSIS

LIGHTFASTNESS GOOD
pH SOLUTION 2% 3.5 - 4.5

PROPERTIES AND APPLICATIONS

LECOSIN BN is a tanning agent used on tannage and retannage processes in order to obtain fibre firmness and bleaching action.

LECOSIN BN has a high lightfastness and its application improves dyes brightness.

LECOSIN BN has the tendency to reduce leathers elasticity maintaining a good softness.

SUGGESTED PERCENTAGES OF USE

In retanning 2 - 4% on shaved weight

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LECOSIN CC CONC.

DIOXIDIPHENYLSULPHONIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	min 95.0%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	3.5-4.5

PROPERTIES AND APPLICATIONS

LECOSIN CC CONC. is a product of dioxidiphenylsulfonic condensation with the appearance of a white powder, easily soluble in water.

LECOSIN CC CONC. is a replacement syntan which is able, when used alone, to produce white sole-leather with good softness.

LECOSIN CC CONC. can be blended with all vegetable extracts producing very light vegetable vacchetta. If a real "white vegetable" is required, it can be blended with LECOSIN ITS.

LECOSIN CC CONC. gives very good results on retannage of chrome leather for white production where it promotes a soft touch and very fine grain to the leather.

SUGGESTED PERCENTAGES OF USE

In white tannage after possible previous aldehyde pretannage 25% on pelt weight

In white vegetable tannage together with LECOSIN ITS up to half of tannage percentages

In white chrome leather retannage 6 - 12% on shaved weight

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LECOSIN CDD

NAPHTHALENE NEUTRALIZING AUXILIARY SYNTAN
FOR CHROME LEATHER

ANALYSIS

TOTAL SOLIDS	Min.90.0%
pH SOLUTION 2%	6.5 - 8.5

PROPERTIES AND APPLICATIONS

LECOSIN CDD is a naphthalene based auxiliary syntan easily soluble in water, possessing a strong neutralising capability for chrome and other mineral tannages, and can also be used on vegetable leathers.

LECOSIN CDD has a low affinity for the leathers to be neutralised promoting finished leathers with a smooth and tight grain.

LECOSIN CDD has high buffering properties which ensure a uniform neutralising through the section and on the grain surface. This characteristic is important for the subsequent stages such as retannage and dyeing to assist with uniform distribution.

LECOSIN CDD can be used alone or in combination with other neutralising agents and it can be added to the drum in powder form without risk of staining or damaging the leather.

SUGGESTED PERCENTAGES OF USE

In neutralising process	1 - 3% on shaved weight
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LECOSIN CF LIQ.

ANIONIC CONDENSED BASED ON DICYANDIAMIDIC RESIN

ANALYSIS

TOTAL SOLIDS	38 - 42%
LIGHTFASTNESS	GOOD
pH SOLUTION 2 %	9.0 – 10.0

PROPERTIES AND APPLICATIONS

LECOSIN CF LIQ. is a light yellow limpid liquid easily soluble in water based on a dicyandiamidic resin with anionic charge.

LECOSIN CF LIQ. can be used in combination with all anionic charge products but it does not result stable to cationic products.

LECOSIN CF LIQ. is recommended for non-anstringent retanning of chrome leathers, to promote a tight and flexible grain easily buffable and ideal for the production of "corrected grain" and nubuk leathers.

LECOSIN CF LIQ. if used during neutralizing, after a treatment with a syntan or with a buffered mineral salt, produces a firm leather also in the spongiest, empty and more elastic parts.

SUGGESTED PERCENTAGES OF USE

In neutralization 2 - 4% on shaved weight after pre-neutralisation

In retannage 3 - 5% on shaved weight together with tannins or syntans of low acidity

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LECOSIN CF/T3

SPECIAL RESIN-SYNTAN BASED ON NITROGEN POLYMER
FOR WATERPROOF AND FULL GRAIN LEATHER

ANALYSIS

TOTAL SOLIDS	Min. 92%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	8.2 - 9.2

PROPERTIES AND APPLICATIONS

LECOSIN CF/T3 is a retanning agent based on a nitrogen containing resin, easily soluble in water, unstable in acid environment.

LECOSIN CF/T3 can be employed during retannage of chrome or full vegetable leather, alone or in combination with other retanning agent it promote a selective filling action for spongy areas giving a even full leather with thight and flexible grain, ready for a good buffing effect.

SUGGESTED PERCENTAGES OF USE

In retannage of chrome or vegetable leathers 2 - 5% on shaved weight

In retannage for waterproof leather 3 -6% on shaved weight

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LECOSIN CMF/B

PHENOLIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	Min. 95%
pH SOLUTION 2%	3.0 - 4.0

PROPERTIES AND APPLICATIONS

LECOSIN CMF/B is a pale cream coloured powder easily soluble in water. It is compatible with all normally used anionic syntans and vegetable extracts.

LECOSIN CMF/B is recommended for use mainly in the retannage of chrome leathers to produce a white leather, with good fullness, a fine tight smooth grain, easily buffable. Used with other syntans it can improve the fullness and roundness whilst maintaining softness in the leather.

LECOSIN CMF/B can be used alone as the sole tanning agent to produce a full, white, lightfast leather. It can also be used in the retannage of vegetable leathers to improve the colour, softness and fullness of the leather.

SUGGESTED PERCENTAGES OF USE

During tannage of white leather	20 - 30% on pelt weight check for penetration
During retannage of chrome leather	3 - 10% on shaved weight
Retannage of vegetable leather	5 - 6% on shaved weight

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LECOSIN CN

NAPHTHALENE AUXILIARY DISPERSING SYNTAN

ANALYSIS

TOTAL SOLIDS	Min. 89%
pH SOLUTION 2%	7.8 - 8.8

PROPERTIES AND APPLICATIONS

LECOSIN CN is a neutral naphthalene auxiliary syntan with good dispersing properties.

LECOSIN CN can be used in the retannage of all process where it disperses syntans resins and vegetable extracts, assisting in promoting penetration and uniform distribution of the retanning agents to produce finished leathers with a fine grain.

LECOSIN CN can also be used to promote uniform surface dyeing of leather, when used in small amounts; or with the use of larger amounts it can be used to obtain full penetration of the dye where required.

LECOSIN CN can be used in the vegetable tannage of leathers where its dispersing action reduces the risk of aggregation and promotes easier penetration of the vegetable extracts.

SUGGESTED PERCENTAGES OF USE

In retannage	1 - 4% on shaved weight
In dyeing	0.5 - 6% on shaved weight
In vegetable tannage	2 - 4% on limed weight

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LECOSIN CR/5

PHENOLIC CONDENSED REPLACEMENT

ANALYSIS

TOTAL SOLIDS	92 - 97%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	4.0 - 5.5

PROPERTIES AND APPLICATIONS

LECOSIN CR/5 is a condensed phenolic replacement syntan, particularly suitable for the retannage and bleaching process of chrome leathers.

LECOSIN CR/5 gives the leathers a fine grain, good feel and excellent softness and fullness.

LECOSIN CR/5 can be used alone or in combination with vegetable extracts and resins; in the first case, it produces leathers with a light colour and it is recommended for the production of pastel colour leathers.

LECOSIN CR/5 thanks to its pH level, can be employed as an additive in the neutralisation process, largely avoiding any blowing defect which can occur during this phase, particularly when only auxiliaries are used.

SUGGESTED PERCENTAGES OF USE

In retannage for bleaching of wet-blue leathers	8 - 10% on shaved weight
In retannage together with vegetable extracts	3 - 4% on shaved weight
In neutralisation process	1 - 3% in combination with other neutralising auxiliaries

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LECOSIN CWS

REPLACEMENT SYNTAN FOR WHITE ARTICLES

ANALYSIS

TOTAL SOLIDS	90,0 – 95,0%
pH SOLUTION 2%	3,5 - 4,8
LIGHTFASTNESS	GOOD

PROPERTIES AND APPLICATIONS

LECOSIN CWS is a white spray dried powder based on phenolic and dioxidiphenysulfonic readily soluble in water at any temperature.

LECOSIN CWS is a replacement syntan particularly suitable for chrome leather retannage for white articles and in all applications where lightfastness, softness, good fullness and a fine grain are required

LECOSIN CWS also possesses good bleaching properties if used as retanning agent on chrome stock and the resulting leather has good light fastness.

SUGGESTED PERCENTAGES OF USE

In retannage of chrome leather 4 - 6% on shaved weight

In retannage for white leather 6 - 8% on shaved weight

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LECOSIN CX/L

MULTIPURPOSE PHENOLIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	32 -37 %
LIGHTFASTNESS	very good
pH SOLUTION 2%	2.6 - 3.6

PROPERTIES AND APPLICATIONS

LECOSIN CX/L is a thick and transparent liquid based on phenolic condensation with sulphates content below 1%.

LECOSIN CX/L is a replacement syntan, with a wide range of applications. If it is used on chrome leather, it gives good filling property and it has an excellent lightfastness.

LECOSIN CX/L has a good dispersing action of all other retanning agents, such as: vegetable extracts and resins. Its combination with resins and vegetable extracts gives full and firm leathers without stretch.

LECOSIN CX/L is also recommended as a replacement syntan in the production of vegetable tanned leather where it can replace part of vegetable extracts usually used, to obtain a lighter colour, to increase speed of tanning, penetration and finer grain.

SUGGESTED PERCENTAGES OF USE

Retannage for white leathers	8 - 15% on shaved weight
Rechrome	3 - 5% on shaved weight together with other retanning agents.
In vegetable retannage	can replace up to 15% of vegetable extract normally used
For the bleaching of vegetable tanned leather	3 - 7% on shaved weight

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LECOSIN CX/N

MULTIPURPOSE PHENOLIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	Min.92,0 %
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	2.9 - 3.4

PROPERTIES AND APPLICATIONS

LECOSIN CX/N is a spray-dried powder, phenolic base, easily soluble, with a wide range of applications.

LECOSIN CX/N is a replacement syntan that has a good bleaching action and a good filling effect on chrome tanned leathers .

LECOSIN CX/N has a good dispersing action of other retanning agents such as natural tannins and resins, added to obtain full and firm leathers but not excessively elastic and soft.

LECOSIN CX/N is also recommended as a replacement syntan in the production of vegetable tanned leather where it can replace part of the natural tannins usually used to obtain a lighter colour, finer grain and improving the speed and uniformity of penetration.

SUGGESTED PERCENTAGES OF USE

Retannage for white leathers	5 - 10% on shaved weight
Retannage	2 - 3% on shaved weight together with other retanning agents
In vegetable retannage	Can replace up to 25% of the vegetable tannin normally offered
For the bleaching of vegetable tanned leather	2 - 5% on shaved weight

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LECOSIN FF

NON-IONIC SYNTHETIC COMPOUND WITH FILLING PROPERTIES

ANALYSIS

TOTAL SOLIDS	Min. 90%
LIGHTFASTNESS	EXCELLENT
pH SOLUTION 1:10	5.5 – 7.5

PROPERTIES AND APPLICATIONS

LECOSIN FF is a white powder based on non-ionic organic and inorganic materials, finely dispersed, particularly developed for filling the empty and spongy parts of the leather.

LECOSIN FF can be added to the drum directly as a dry powder or mixed with water at 45 - 50°C.

LECOSIN FF can be used together with the usual blend of syntans and/or resins to obtain a good filling effect without compromising the characteristic softness of the article. It can also be added before fatliquoring (15 - 20') to avoid the breaking of the fatliquor in those parts more spongy or empty (e.g.: bellies)

SUGGESTED PERCENTAGES OF USE

In retannage	2 - 4% on shaved weight
Before fatliquor	3% on shaved weight in short float 15 - 20' run

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LECOSIN FF/T

FILLING EFFECT

ANALYSIS

TOTAL SOLIDS	Min. 91.0%
pH SOLUTION 1:10	8.5 – 9.5

PROPERTIES AND APPLICATIONS

LECOSIN FF/T is a white powder based on organic and inorganic materials, finely dispersed, particularly developed for filling the empty and spongy parts of the leather (e.g.: bellies).

LECOSIN FF/T can be used together with the usual blend of syntans and/or resins to obtain a good filling effect without compromising the characteristic softness of the article.

LECOSIN FF/T can be used with excellent results on corrected grain leather and splits improving the buffing effect.

SUGGESTED PERCENTAGES OF USE

In retannage	2 - 6% on shaved weight
In fatliquor	1-3% on shaved weight together with fatliquor blend

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LECOSIN FX

MULTIPURPOSE PHENOLIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	Min 92,0%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	3.0 - 4.0

PROPERTIES AND APPLICATIONS

LECOSIN FX is a spray-dried powder, phenolic base, easily soluble, with a wide range of applications.

LECOSIN FX is a replacement syntan that has a good bleaching action and a good filling effect on chrome tanned leathers .

LECOSIN FX has a good dispersing action of other retanning agents such as natural tannins and resins, added to obtain full and firm leathers but not excessively elastic and soft.

LECOSIN FX is also recommended as a replacement syntan in the production of vegetable tanned leather where it can replace part of the natural tannins usually used to obtain a lighter colour, finer grain and improving the speed and uniformity of penetration.

SUGGESTED PERCENTAGES OF USE

Retannage for white leathers	5 - 10% on shaved weight
Retannage	2 - 3% on shaved weight together with other retanning agents
In vegetable retannage	can replace up to 25% of the vegetable tannin normally offered
For the bleaching of vegetable tanned leather	2 - 5% on shaved weight

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LECOSIN H-18

CHROME-SYNTAN RETANNING AGENT

ANALYSIS

TOTAL SOLIDS	Min. 90%
LIGHTFASTNESS	VERY GOOD
CHROME OXIDE	12.0 – 13.0%
pH SOLUTION 2%	2.6 - 3.2

PROPERTIES AND APPLICATIONS

LECOSIN H-18 is a chrome synthetic complex appearing as a white-greenish coloured powder.

LECOSIN H-18 , used in the pretannage, penetrates rapidly and uniformly into the leather section; this characteristic is exploited in those tannages which have a low content of chrome.

LECOSIN H-18 is used in the retannage of those leathers where a good softness and fullness are required, without an excessive swelling , together with an improvement in the grain fineness.

LECOSIN H-18 gives the retanned leathers an excellent dyeability, without altering the intensity and the tone of the dyestuffs.

SUGGESTED PERCENTAGES OF USE

In the pretannage 2-3% on pelt weight

In the retannage 3-4% on shaved weight before the addition of the basified chrome commonly used

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LECOSIN HLC

PHENOLIC REPLACEMENT SYNTAN FOR SOFT ARTICLES

ANALYSIS

TOTAL SOLIDS	Min. 90%
pH SOLUTION 2%	5,5-7,0
LIGHTFASTNESS	GOOD

PROPERTIES AND APPLICATIONS

LECOSIN HLC is a pale beige spray dried powder based on particular formula of condensed phenolic products and specific amines derivative with good lightfastness characteristics.

LECOSIN HLC is a replacement syntan with excellent filling properties. It is particularly suitable for chrome leathers retannage where softness, fullness and roundness and a fine grain are required.

LECOSIN HLC is particularly suitable for retannage of wet-blue, wet-white leathers and vegetable tanned leathers for shoe upper and upholstery articles.

LECOSIN HLC is compatible with all anionic retanning and fatliquoring agents.

SUGGESTED PERCENTAGES OF USE

In retannage process 4 - 8% on shaved weight in consideration of article desired

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LECOSIN ITB

RETANNING AGENT BASED ON TARA

ANALYSIS

TOTAL SOLIDS	Min. 92%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	3.2 - 4.2

PROPERTIES AND APPLICATIONS

LECOSIN ITB is a white powder and can be used to obtain white retannage and a vegetable leathers.

LECOSIN ITB, thanks to the combination of natural pirogallol tannins and syntans, has an good astringency power without modify the grain.

LECOSIN ITB, compared to the other natural tannins, imparts to the leathers the following characteristics:

- good lightfastness and light colours
- good fullness and softness, with a fine and firm grain
- excellent dyebility in pastel and in intense shade

LECOSIN ITB can be used in vegetable and chrome retannage, imparting a good softness and fullness to the leathers suitable for nappa articles.

LECOSIN ITB can be used in combination with other vegetable tannins, syntans and/or resins.

SUGGESTED PERCENTAGES OF USE

In retannage 5 – 10% on shaved weight to

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LECOSIN ITS

COMPOUND OF NATURAL TANNINS

ANALYSIS

TOTAL SOLIDS	Min.92,0%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	3.0 - 4.0

PROPERTIES AND APPLICATIONS

LECOSIN ITS is obtained by milling the fruit of a South-American plant called tara (caesalpina tinctoria). The tara contains some tannin from the pyrogallic group and a small quantity of catechol derivatives. The high yield of LECOSIN ITS is linked with the particular fineness of the powder which has a light colour and a low ash content.

LECOSIN ITS gives the leather interesting properties if it is compared with other natural tannins:

- a very light colour and a good lightfastness thanks to the absence of dyeing substances
- a higher resistance of the grain to the breaking load if compared with other vegetable tanning extract
- a good fullness and softness with a fine firm grain
- an excellent dyeability of the leather both for pastel colours, thanks to the absence of colour, and for deep colours because it does not "spoil" the dyes.

LECOSIN ITS is used as a tanning agent on pelts or as a retanning agent of vegetable-tanned or chrome-tanned leathers to which it imparts a particular softness and fullness, a suitable characteristic for nappa articles.

LECOSIN ITS can be used in combination with other vegetable tanning extracts, syntans and/or resins.

LECOSIN ITS is generally protected from the action of the Fe ions which are in the water: in case some dark stains should be noticed on the leather, it is advisable to add a sequestering agent .

SUGGESTED PERCENTAGES OF USE

In tannage process 20 - 24% on pelt weight

In retannage process 5 - 10% on shaved weight

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LECOSIN LEE

BASIFYING AGENT FOR CHROME TANNAGE WITH CONTROLLED EFFECT

ANALYSIS

TOTAL SOLIDS 92 - 95%
pH IN CHROME SOLUTION 2,7 – 3,3

PROPERTIES AND APPLICATIONS

LECOSIN LEE is a product developed to obtain the highest chrome exhaustion during tannage process. It is a syntan particularly formulated with balanced organic and inorganic component . Product can be safely added in tannage bath during initial phases of chrome tannage.

LECOSIN LEE thanks to its complex and self basifying properties allows to reach a high exhaustion bath level without the addition of other basifying agents.

LECOSIN LEE allows wet-blue production with excellent fullness, softness, fine grain and good dyeability capacity.

LECOSIN LEE, offers the possibility to reduce till 20,0% tannage use without modify leather chrome content thus because the use of LECOSIN LEE guarantees an excellent chrome exhaustion.

LECOSIN LEE has an excellent action when used in short bath with final tannage at pH 4. In these conditions final tannage baths can reach the value of 1 - 3 g/l in Cr₂O₃.

SUGGESTED PERCENTAGES OF USE

For basification chrome tannage one addition equal to 1,1 - 1,3% on shaved weight after 60' of chrome addition. Run 6-8 hours till final temperature of 40° C.

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LECOSIN LRH

REPLACEMENT SYNTAN IN COMBINATION WITH ALUMINIUM SALTS

ANALYSIS

TOTAL SOLIDS	min.92.0 %
pH SOLUTION 2%	4,0-4,5

PROPERTIES AND APPLICATIONS

LECOSIN LRH is a phenolic replacement syntan combined with aluminium salts and is a white powder easily soluble in water. It produces all kind of white leathers, goat and sheepskin included, with good lightfastness.

LECOSIN LRH is used as retanning agent on wet-blue leather for the production of white articles giving softness, fullness and a light and smooth grain.

LECOSIN LRH has a slight cationic charge particularly useful for:

- pretanning chrome leather, promoting the distribution of chrome salts
- retanning suede leathers obtaining a closed grain for easy buffing and at the same time it improves the uniformity and brightness of the dyeing.

SUGGESTED PERCENTAGES OF USE

Tannage of goat and sheepskin	25 – 40 gr/l
Pretannage of chrome leather	1 – 3% on pelt weight
Bleaching on wet-blue leather	3 – 10% on shaved weight

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LECOSIN NH

PHENOLIC CONDENSED SYNTAN FOR SOFT ARTICLES

ANALYSIS

TOTAL SOLIDS	Min. 90%
LIGHTFASTNESS	MEDIUM
pH SOLUTION 2%	6.5 - 7.5

PROPERTIES AND APPLICATIONS

LECOSIN NH is a phenolic syntan with good tanning effect, able to improve fullness and softness and imparting a light shade to the leather.

LECOSIN NH can impart a light and soft hand, and it is particularly suitable to produce garment nappa and upholstery leathers.

SUGGESTED PERCENTAGES OF USE

In upholstery chrome retanning	3 – 4% on shaved weight to obtain the desired article
In chrome retanning for garment	3 – 5% on shaved weight to obtain the desired articles

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LECOSIN NNL

PHENOLIC REPLACEMENT SYNTAN FOR SOFT ARTICLES
AND UNIFORM DYEINGS

ANALYSIS

TOTAL SOLIDS	Min. 95%
pH SOLUTION 10%	5.6 – 6.6
LIGHTFASTNESS	GOOD

PROPERTIES AND APPLICATIONS

LECOSIN NNL is a white spray dried powder of phenolic base readily soluble in water at any temperature.

LECOSIN NNL is a replacement syntan particularly suitable to uniform and intensify dyeings using anionic dyestuffs. It improves distribution and penetration.

LECOSIN NNL allows to realise soft and smooth articles with good lightfastness.

LECOSIN NNL is compatible with all retanning agents, dyestuffs and fatliquors with anionic charge.

SUGGESTED PERCENTAGES OF USE

In dyeing process	0.5 – 2.0% on shaved weight
In neutralisation	4.0 – 6.0% on shaved weight

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LECOSIN OCF

MULTIPURPOSE PHENOLIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	Min. 90%
LIGHTFASTNESS	GOOD
pH SOLUTION 10%	5.0 – 7.0

PROPERTIES AND APPLICATIONS

LECOSIN OCF is a phenolic based powder replacement syntan with a wide range of applications. It is completely soluble in water.

LECOSIN OCF thanks to its formulation is able to impart a good bleaching effect and a good filling effect on those chrome leathers tanned.

LECOSIN OCF has a good dispersing action on other retanning agents such as vegetable extracts and resins. When it is added in retannages increase fullness and firmness of the leathers.

SUGGESTED PERCENTAGES OF USE

Retannage for white leathers	6 - 12% on shaved weight
Retannage	2 - 6% on shaved weight together with other retanning agents

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LECOSIN OF

MULTIPURPOSE PHENOLIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	Min. 90%
LIGHTFASTNESS	GOOD
pH SOLUTION 10%	3.5 - 4.5

PROPERTIES AND APPLICATIONS

LECOSIN OF is a phenolic based powder replacement syntan with a wide range of applications.

LECOSIN OF has a good bleaching and dispersing action on other retanning agents such as vegetable extracts and resins.

The addition of LECOSIN OF improves an excellent fullness and firmness in the leathers without making them too elastic and soft.

LECOSIN OF can also be used as a replacement syntan in the production of vegetable tanned leather where part of the natural tannins can be replaced to obtain a lighter colour, finer grain and improving the speed and uniformity of penetration.

SUGGESTED PERCENTAGES OF USE

Retannage for white leathers	4 - 12% on shaved weight
Retannage	2 - 5% on shaved weight together with other retanning agents
In vegetable retannage	can replace up to 25% of the vegetable tannin normally offered
For the bleaching of vegetable tanned leather	2 - 6% on shaved weight

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LECOSIN OLS

MULTIPURPOSE PHENOLIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	Min. 92%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	3.5 - 5.0

PROPERTIES AND APPLICATIONS

LECOSIN OLS is a phenolic based powder replacement syntan with a wide range of applications.

LECOSIN OLS has a good bleaching action and a good filling effect on chrome tanned leathers.

LECOSIN OLS also has a good dispersing action on other retanning agents, vegetable extracts and resins, added to improve the fullness and firmness in the leathers without making them too elastic and soft.

LECOSIN OLS can also be used as a replacement syntan in the production of vegetable tanned leather where part of the natural tannins can be replaced to obtain a lighter colour, finer grain and improving the speed and uniformity of penetration.

SUGGESTED PERCENTAGES OF USE

Retannage for white leathers	4 - 12% on shaved weight
Retannage	2 - 5% on shaved weight together with other retanning agents
In vegetable retannage	can replace up to 25% of the vegetable tannin normally offered
For the bleaching of vegetable tanned leather	2 - 6% on shaved weight

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LECOSIN OLS/C

MULTIPURPOSE PHENOLIC REPLACEMENT SYNTAN

ANALYSIS

TOTAL SOLIDS	Min. 95%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	3.5 - 5.0

PROPERTIES AND APPLICATIONS

LECOSIN OLS/C is a phenolic based powder replacement syntan with a wide range of applications.

LECOSIN OLS/C has a good bleaching and dispersing action on other retanning agents such as vegetable extracts and resins.

The addition of LECOSIN OLS/C improves an excellent fullness and firmness in the leathers without making them too elastic and soft.

LECOSIN OLS/C can also be used as a replacement syntan in the production of vegetable tanned leather where part of the natural tannins can be replaced to obtain a lighter colour, finer grain and improving the speed and uniformity of penetration.

SUGGESTED PERCENTAGES OF USE

Retannage for white leathers	4 - 12% on shaved weight
Retannage	2 - 5% on shaved weight together with other retanning agents
In vegetable retannage	can replace up to 25% of the vegetable tannin normally offered
For the bleaching of vegetable tanned leather	2 - 6% on shaved weight

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LECOSIN PSW

REPLACEMENT SYNTAN FOR SOFT ARTICLES

ANALYSIS

TOTAL SOLIDS	Min. 92.0%
LIGHTFASTNESS	GOOD
pH SOLUTION 2%	3.2 - 4.2

PROPERTIES AND APPLICATIONS

LECOSIN PSW is a atomised light coloured powder easily soluble in water at any temperatures .

LECOSIN PSW is a replacement syntan particularly suitable for retannage of chrome leathers where high softness grade, good fullness, roundness, very soft hand and very fine grain are required.

LECOSIN PSW is particularly recommended for garment articles and generally for upholstery and nappa where softness is essential.

SUGGESTED PERCENTAGES OF USE

In chrome retannage	4 -6% on shaved weight
In chrome retannage for white	6 – 8% in shaved weight
In pretannage for sheepskins	3 – 5% on pickeld weight before chrome addition

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LECOSIN R7S

UREA-FORMALDEHYDE CONDENSATION

ANALYSIS

TOTAL SOLIDS Min. 92%

pH SOLUTION 2% 5.5 - 7.5

PROPERTIES AND APPLICATIONS

LECOSIN R7S is a retanning white powder in anionic charge.

LECOSIN R7S, thanks to its chemical characteristics, in retannage is a good dispersing agent for resins, vegetable extracts and syntans, allowing a better distributions of the products.

LECOSIN R7S improves the uniformity of dyeing, optimising the characteristics of suede leathers.

SUGGESTED PERCENTAGES OF USE

In retannage 2 - 4% on shaved weight to obtain the desired effect

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LECOSIN ST

COMPOUND OF NATURAL TANNING

ANALYSIS

TOTAL SOLIDS	92 - 97%
pH SOLUTION 1:10	3.0 - 4.0

PROPERTIES AND APPLICATIONS

LECOSIN ST is a combination of natural vegetable extract formulated as a light and fine powder with low content of ash. Thanks to this characteristic, LECOSIN ST is able to fill up the spongy parts of the empty leathers.

LECOSIN ST finds an ideal employee as retanning agent of vegetable and chrome tanned leathers, imparting softness and fullness to nappa articles.

LECOSIN ST can be used in combination with other vegetable extracts, syntans and resins.

SUGGESTED PERCENTAGES OF USE

In retanning	5.0 - 10.0% on shaved weight
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LECOSIN T/77

BALANCED NEUTRALIZING AGENT

ANALYSIS

TOTAL SOLIDS	Min. 94%
pH SOLUTION 2%	8.5 - 9.5

PROPERTIES AND APPLICATIONS

LECOSIN T/77 is a white balanced blend of neutralising organic and inorganic salts which can be used alone or in combination with other neutralising syntans.

Thanks to its strong buffering power, LECOSIN T/77 promote a safe and deep neutralisation giving more dispersing action for retanning agents.

SUGGESTED PERCENTAGES OF USE

In neutralisation 1 - 4% on shaved weight

IMPORTANT: DURING STORAGE CAN LOOSE WEIGHT

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LECOSIN TC

COMBINATION OF ORGANIC SUBSTANCES AND MINERAL TANNING AGENTS

ANALYSIS

HUMIDITY AT 102°c	Max. 10%
LIGHTFASTNESS	GOOD
CHROME OXIDE	6.0 – 7.0%
pH SOLUTION 2%	2.5 - 3.5

PROPERTIES AND APPLICATIONS

LECOSIN TC is a retanning agent having a green-brown colour, based on a complex derived from the synthesis of retanning agents of diverse nature, having an anionic character.

LECOSIN TC, thanks to its particular synthesis can be used in the retannage of wet-blue leather after neutralisation, producing leathers with a full and round handle, with good buffing characteristics and capable of good print retention.

LECOSIN TC is compatible with other anionic retanning agents and resins but has a strong affinity with anionic dyestuff and is capable of producing leathers with bright colours and a fine grain.

LECOSIN TC, on vegetable tanned leathers can be used after washing with oxalic acid, giving improved roundness and improved affinity of the leather for dyestuff.

SUGGESTED PERCENTAGES OF USE

In retannage of chrome leathers	3 - 6% on shaved weight, alone or in combination with other retanning agents, according to the requirements.
In retannage of vegetable leathers	4 - 6% on shaved weight after washing with oxalic acid.

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LECOSIN TI/5

SELFBASIFYING AND COMPLEXING AGENT FOR CHROME

ANALYSIS

TOTAL SOLIDS Min.96.0%

PROPERTIES AND APPLICATIONS

LECOSIN TI/5 is a neutral syntan containing organic and inorganic compounds carefully balanced to allow the addition of the product without running risks for the chrome bath during the initial stages of tannage.

LECOSIN TI/5 not only has autobasifying properties but also complexing capacities which guarantee a high degree of chrome exhaustion without adding any other masking products.

LECOSIN TI/5 promotes wet-blue leathers with a light colour, a smooth grain and an excellent uniformity of chrome oxide with a subsequent good softness and roundness. The dyeing on the wet-blue leather produced will be uniform thanks to the distribution and dispersing capacities of LECOSIN TI/5 on natural fats.

LECOSIN TI/5 allows the tannage to finish at a pH of 3.8 - 4.0 without having sudden changes in the pH, and with good exhaustion of the residual bath.

SUGGESTED PERCENTAGES OF USE

To basify the chrome tannage one addition of 1.1 - 1.3% on pelt weight 60' after the chrome addition. Run 6 - 8 hrs. reaching a final temperature of 40°C.

N.B.: For a better bath exhaustion it is suggested to end the tannage with a pH at 4.2 and a temperature of 45°C.

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LECOSIN W EXTRA

SUBSTITUTE SYNTAN OF VEGETABLE EXTRACT

ANALYSIS

TOTAL SOLIDS	40 - 45%
pH SOLUTION 1:10	3.0 - 4.0

PROPERTIES AND APPLICATIONS

LECOSIN W extra is a syntan base formulation particularly developed to be similar to vegetable tannins. LECOSIN W extra, during vegetable and/or chrome tannage and retannage processes, can partially substitute vegetable tannins.

LECOSIN W extra improves penetration and distribution in section of tanning and retanning agents even on high thickness.

LECOSIN W extra finds an ideal employee as retanning agent of vegetable and chrome tanned leathers, imparting softness and fullness to nappa articles.

LECOSIN W extra can be used in combination with other vegetable extracts, syntans and resins.

SUGGESTED PERCENTAGES OF USE

In retanning	5.0 - 10.0% on shaved weight
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LECOSIN X LIQ.

DIOXIDIPHENILSULPHONE

ANALYSIS

TOTAL SOLIDS	36 - 38%
pH SOLUTION 2%	2.8 - 3.2

PROPERTIES AND APPLICATIONS

LECOSIN X LIQ is a sulphonic replacement syntan with high astringency power, able to produce a white leather with a dense and tight structure with flat and fine grain of medium softness.

Its application impart a notable dyeability to the crust obtained.

Due to its astringency, LECOSIN X LIQ added to 10% on its weight with formic acid, is able to produce shrunken grain articles on pelts.

SUGGESTED PERCENTAGES OF USE

In retanning	from 4.0 to 10.0% on shaved weight
In pretanning for shrunken grain	20.0 to 30.0% added to 2.0-3.0% of formic acid on pelt weight

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ECOSINT 300W

RETANNING AND SOFTENING POLYMER FOR WHITE LEATHER BASED ON A VERY NEW CONCEPT

ANALYSIS

DRY RESIDUAL	MIN 92%
LIGHTFASTNESS	EXCELLENT
pH SOLUTION 1:10	3.9 –4.9

PHENOL AND FORMALDEHYDE FREE

PROPERTIES AND APPLICATIONS

ECOSINT 300W is a white powder

ECOSINT 300W is a anionic retannage, lightfastness which imparts to the leathers good firmness and fullness.

ECOSINT 300W thanks to its chemical characteristics has a high bleaching effect on wet-blue leathers

ECOSINT 300W can be used after neutralization alone or in combination with other anionic retanning agents when white or pastel shade leathers are desired without using syntan based on phenol and/or formaldehyde

SUGGESTED PERCENTAGES OF USE

In retannage from 2 to 6% in consideration structure and leather thickness to be treated

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ECOSOFT 1001

POLYMER IN COMBINATION WITH AMINE DERIVATES AND TANNINS CONDENSED

ANALYSIS

TOTAL SOLIDS	MIN 30 %
LIGHTFASTNESS	EXCELLENT
ELECTROLYTES STABILITY	MEDIUM-GOOD
ACID STABILITY	GOOD
pH SOLUTION 1:10	5.5 –6.5

PROPERTIES AND APPLICATIONS

ECOSOFT 1001 is a dark brown liquid based on a polymer and tannins condensed.

ECOSOFT 1001 is able to guarantee a good fullness and softness with rubber touch imparting excellent dyeability condition presenting a uniform and well define grain.

ECOSOFT 1001 thanks to its particular condensation is highly selective on those empty parts of the leather.

ECOSOFT 1001 is perfectly compatible with vegetable extract and syntans normally used in retannage and it can be used in retannage together with fats and anionic dyestuffs.

SUGGESTED PERCENTAGES OF USE

In retannage from 2 to 4% on shaved weight in consideration of desired article

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ECOSOFT 1002

RETANNING POLYMER COMPOUND

ANALYSIS

ACTIVE SUBSTANCE	29.0 – 31.0 %
LIGHTFASTNESS	GOOD
pH SOLUTION 1:10	8.0 – 9.0

PROPERTIES AND APPLICATIONS

ECOSOFT 1002 is an anionic resin based on a polymer in an aqueous solution with a light yellow colour, easily dilutable in water.

ECOSOFT 1002 is used to retan the chrome and vegetable-tanned leathers to produce articles with a fine grain and where it is necessary to obtain a particular softness and elasticity.

ECOSOFT 1002 has the capacity of levelling and compacting the fibrous structure of the leathers and for this reason it can be used for velour leathers.

ECOSOFT 1002 can be used together with other anionic products such as syntans, fatliquors and dyestuffs

SUGGESTED PERCENTAGES OF USE

In retannage 4 - 5% on shaved weight

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IDROSIN HA-11F

SOFTENING POLYMER

ANALYSIS

ACTIVE SUBSTANCE	34.5 – 35.5%
LIGHTFASTNESS	EXCELLENT
pH 1:10 SOLUTION	5.0 - 5.8

PROPERTIES AND APPLICATIONS

IDROSIN HA-11F has a particular polymeric structure with lubricating and filling action. The product belongs to a new generation of chemicals really flexible in application, able to be applied in many different processes of production.

IDROSIN HA-11F imparts a warm and round “touch” to the leather. It can be applied to all the soft articles like “nappa”, garment, upholstery.

Being stable to the majority of the commercial polymers and syntans can be applied to all the articles for upper and fancy goods. Due to its water resistance characteristics can be employed also for waterproof articles

SUGGESTED PERCENTAGES OF USE

During retanning	from 2.0 – 6.0% blended with other polymers and/or syntans
During fatliquoring	from 4.0 up to 15% alone or in combination with other fatliquors.

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LECOREN LTX

HIGH MOLECULAR WEIGHT POLYMER

ANALYSIS

ACTIVE SUBSTANCE	22.0-25.0%
DRY MATTER	19.0 – 22.0%
pH SOLUTION 1:10	4,5-5,0

PROPERTIES AND APPLICATIONS

LECOREN LTX is a dense transparent liquid easily soluble, stable in all pH conditions.

LECOREN LTX in consideration of its chemical characteristics can be used as retannage and fatliquor of chrome leathers when fullness, roundness, firmness and very fine grain are required.

LECOREN LTX guarantees an excellent fibres lubrication and helps to produce waterproof articles.

LECOREN LTX can be used in combination with synthetic and vegetable retanning agent, fatliquors and anionic dyestuffs.

SUGGESTED PERCENTAGES OF USE

In retannage 2-4% on shaved weight in consideration of desired effect

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PERMASOL KMT

EMULSION OF SOFTENING AND SYNTHETIC POLYMERS

ANALYSIS

ACTIVE SUBSTANCE	38.0 – 42.0 %
pH SOLUTION 1:10	5.2-6.2

PROPERTIES AND APPLICATIONS

PERMASOL KMT is a yellow paste.

PERMASOL KMT thanks to its particular composition is able to easily disperse allowing an excellent penetration and distribution in to the leather with high bath exhaustion.

PERMASOL KMT guarantees articles with high softness and round hand even on empty parts.

PERMASOL KMT can be used on suede production and on those articles where fatliquor distribution and grain lubrication are essential requirements.

SUGGESTED PERCENTAGES OF USE

In fatliquoring	6 - 16% on shaved weight together with other fatliquors in consideration of desired article
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POLISOFT 200W

POLYMER IN WATER DISPERSION

ANALYSIS

DRY RESIDUAL	38.0 – 42.0
ACID STABILITY	GOOD
LIGHTFASTNESS	EXCELLENT
ELECTROLITES STABILITY	GOOD
pH SOLUTION 10%	5.5 – 6.5

PHENOL AND FORMALDEHYDE FREE

PROPERTIES AND APPLICATIONS

POLISOFT 200W is a white fluid paste.

POLISOFT 200W allows to obtain full and round leather, embossing resistance without the use of products based on phenol and formaldehyde

POLISOFT 200W provide a good selective filling action, giving at the same time a soft and grease effect

POLISOFT 200W can be used chrome retannage too imparting firm and tight leathers. If it is used after neutralisation seal and fill in the empty parts.

POLISOFT 200W can be also used on vegetable leathers and suede splits imparting an excellent fibre closure.

SUGGESTED PERCENTAGES OF USE

In chrome retannage from 2 to 4% on shaved weight

After neutralization alone or together with fatliquor from 2 to 4% on shaved weight
together with fatliquor

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