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SOAKING / WETTING / DEGREASING

General properties

Products for soaking, wetting, cleaning leathers. They soften the skin fibers to get it ready for treatments.

They accelerate the leather processes, improving the soaking-wetting of leathers.

They accelerate the penetration and distribution of products in the used processes.

They are very effective to remove the natural leather fat, which is detrimental to get good penetration and eceness of the products used in all different processes.

In liming to achieve a clean, open and plain appearance.

In liming, it improves the penetration and action of liming products, grain looseness and helping the reduction of wrinkles and the removal of hair roots.

This is particularly important to obtain clean, smooth and fine grain.

In wet-blue to even the differences of leather natural fat and to achieve a high wetting and degreasing level.

Product	Chemical composition	Apearance	pH A.M. Charge	Product properties
TRD-25	Surfactans, water and additives.	Fluid liquid. Transparent. Bluish.	9,0±0,5 30±1 Anionic	High soaking and wetting capacity. Degreasing. Recommended for dry hides/skins or with soaking/wetting difficulties.
TRD-27	Surfactans, water and additives.	Fluid liquid. Transparent. Yellowish.	8,0±0,5 35±2 Anionic	Very effective soaking, wetting and degreasing agent. Recommended for hides/skins with high fat content and for all beamhouse processes. Very effective for small leathers (Sheep, Goat, Mouton...).
TRD-72	Surfactans, water and additives.	Fluid liquid. Transparent. Yellowish.	7,0±0,5 50±2 Anionic	Very effective soaking, wetting and degreasing agent. Recommended for hides/skins with high fat content and for all beamhouse process. Very effective for skin leathers (Sheep, Goat, Mouton...).
TRD-78	Surfactans, water and additives.	Fluid liquid. Transparent. Bluish.	7,0±0,5 31±1 Anionic	Standard degreasing.
TRD-90-E	Surfactans, water and additives.	Fluid liquid. Transparent. Bluish.	8,0±0,5 10±0,5 Anionic	Degreasing, cleaning, soaking.

TRD-H	Surfactants and enzymes composition.	Solid in powder. Light brown.	11,0± 0,5 100 Anionic	Active soaking and wetting auxiliary. Their low enzymatic activity of 500 LVU permits a safe work.
TRD-H-3	Surfactants and enzymes composition.	Solid in powder. White.	12,0±0,5 100 Anionic	Active soaking and wetting auxiliary. Enzymatic activity of 3000 LVU.
TRD-WB-A	Surfactans, sals and additives.	Semi viscous liquid. Opalescent. White.	1,5±0,5 20±0,5 Anionic	Conditioner to be used in Wet-Blue leathers as cleanning, wetting and bleaching agent. To uniform the Wet-Blue leather state. It removes the old chrome and to clean the Wet-Blue. It surface prepare the Wet-Blue leather for penetratron and wet-working of products used after. It can recover the old-wet-blue having long time storaje.
TRD-HB	Masking-alkaline products.	Solid in powder. White.	10,5±0,5 100 Ionic	Alkalinity stabilizer with masking effect for in the soaking and liming processes to improve the pelt quality in comparison with other alkalis like caustic soda. It assures a stable pH which allows to work safely, avoiding the danger of an alkaline attack due to excessive high pH of other strong alkaline products.

PRESERVING

General properties

Preserving products to prevent the development of fungi and the putrefaction of the skin.

The actives substances of products have a wide range of action, covering fungi, bacteria, yeast...

All products are water soluble.

- BACTERICIDES:

The bactericides prevent de damages and losses caused by the fungus and bacteria (putrefaction).

It works during the soaking process, preventing the development of microbial spreads, putrefaction, roots attack and loss of hair or wool.

It doesn't remove any damage caused before of soaking by deficiencies in the conservation during the storing and transportation of hides.

Dossage will depend on the amount of dirt, temperature and soaking time.

Usual 0,05-0,10% in prewash and 0,15-0,25 in soaking (on pelt weight).

- FUNGICIDES:

The fungicides are highly effective against a wide spectrum of moulds, fungus, bacteria and yeasts.

Wide range of protection for all kind of leathers

Protection of wet raw hides and skins for long time, temperature changes, and long distance transport.

Fungicides are used principally for wet-blue leather protection.

Product	Chemical composition	Appearance	pH / A.M.	Product properties
ANTIBAC Z	Based in dithiocarbonated substances.	Fluid liquid. Transparent. Yellow.	9,5±0,5 40±2 Anionic	Bactericide. Biodegradable. Used principally in soaking and wetting processes.
ANTIBAC RC	Based in tiothianate substances.	Fluid liquid. Transparent. Ambar.	5,0±1,0 30±1 Anionic	Fungicide. Used principally in pickle, wet-blue, fatliquoring processes.
ANTIBAC WQ	Based in phenil/phenol substances.	Fluid liquid. Transparent. Ambar.	13,0±1,0 40±2 Anionic	Bactericide + Fungicide. Biodegradable. Can be used in all processes. Also in finishing.

LIMING / DEHAIRING

General properties

Anti-wrinkle, dehairing agent, liming and sulphur solubilizer.

They accelerate the penetration and lime solubilisation. It helps to reduce lime and sulphur. It permit:

- A best attack of sulphur linkages and hair roots and it allows to removal the hair, to get clean and finer grain.
- An attack, softening and the relaxation of elastine and nervous fibers, helping to smooth wrinkles and an increase of area.
- The reduction of contamination charge, due it permit a reduction of lime and sulphur.

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
BACTOL EG	Anionic derivated, enzym, water and additives.	Fluid liquid.	11,0± 0,5	Chemical action.
		Transparent.	10±0,5	
		Colorless.	Anionic	
BACTOL E-1	Enzym derivated and additives.	Solid in powder.	10,0±1,0	Enzymatic action. Dosage: 1,5-2,5%.
		Opalescent.	100	
		White.	Anionic	
BACTOL EN	Amine and organic derivate.	Fluid liquid.	8,0± 0,5	Chemical action. No IMO product.
		Transparent.	15±0,5	
		Colorless to pink.	Anionic	
BACTOL ES	Clorite derivate.	Fluid liquid.	11,5± 0,5	Cleaner. Whitish action.
		Transparent.	30±1	
		Colorless to pink.	Ionic	

DELIMING

General properties

Products that helps us to get, softer, smoother, more elastic, tighter and more compact leathers.

The total neutralisation and solubilisation of lime remains, is acheived through acidification with buffing products of slow reaction

It forms liming salts easily soluble.

Absolutely recommended and obligued use in thick leathers or without splitting.

The use of non-buffed alkaline salts, make in contact with lime an inmediate neutralisation and superfial neutralisation, having difficulties achieving a deep deliming.

The to use of the RESKAL promotes a progresive de-swelling of leather and an optimal action of deliming products.

The slow and buffed action of RESKAL enables a total penetration of deliming products inside the leathers.

It permits a correct pH ajustment and prepares the leather for a perfect work of bating products.

A bad deliming provoque rest of liming into leather, and in consequence more hard leathers and afterworks problems like:

- Lack or penetration and precipitation of tanning products.
- Penetration problems of tanning products, fatliquors and dyestuff.
- Hardness in internal leather, superficial dry touch. Lask in elasticity and flexometry.
- Use increment of retanning, fatliquors, dyestuff product in order to compensate the hardness and lack penetration of products becасue deficient deliming.

The use of buffed deliming products, like RESKAL, helps us to eliminate lime draws.

Product	Chemical composition	Apearence	pH A.M. Charge	Product properties
RESKAL FF	Mix of organic and inorganic salts.	Solid in powder. White.	3,0±0,5 100 Anionic	Low buffering. Economic.
RESKAL S	Mix of organic and inorganic salts.	Solid in powder. White.	2,0±0,5 100 Anionic	Standard product.
RESKAL NC-7	Mix of organic and inorganic salts.	Solid in powder. White.	1,5±0,5 100 Anionic	High penetration. Smooth. Ammonium free salts.
RESKAL L	Mix of organic and inorganic salts in liquid form.	Fluid liquid. Opalescent. Dark brown.	2,5±0,5 100 Anionic	Standard product in liquid form.

BATTING

General properties

Effective enzymatic products that assure an excellent bating..

The bating aim is to break and eliminate the nervous fibers, elastin and others, in order to obtain softer, more elastic and flexible leathers with clean surface.

The optimum bating effect will be reached at Ph= 7,5-8 and temperature of 35-40°C.

Our bating products are eco-friendly because they are ammonium free.

Noted: We can also prepare special bating products according to your needs of concentration or diluting products.

Product	Chemical composition	Apearence	pH A.M. Charge	Product properties
RINDOL PQ-1	Enzymatic mixed, salts and inert carges.	Solid in powder. White.	7,5±0,5 100 Anionic	Acid bating. 1000 LVU.
RINDOL PT-30	Enzymatic mixed, salts and inert carges.	Solid in powder. White.	7,0±0,5 100 Anionic	Alkaline bating. 30000 LVU
RINDOL RN-E	Enzymatic mixed, salts and inert carges.	Solid in powder. White.	7,5±0,5 100 Anionic	Alkaline bating. 600-700 LVU.
RINDOL RN-D	Enzymatic mixed, salts and inert carges.	Solid in powder. White.	7,5±0,5 100 Anionic	Alkaline bating. 700-800 LVU.
RINDOL RN-N	Enzymatic mixed, salts and inert carges.	Solid in powder. White.	7,5±0,5 100 Anionic	Alkalin bating. 1000 LVU.
RINDOL RN-C	Enzymatic mixed, salts and inert carges.	Solid in powder. White.	7,5±0,5 100 Anionic	Alkaline bated 1500 LVU.
RINDOL WB	Enzymatic mixed, salts and inert carges.	Solid in powder. White.	6,5±0,5 100 Anionic	Special bating for Wet-Blue leathers. 1500 LVU.

BASIFYING / MASKING

General properties

The basifying, complexing, masking agents have the aim to fix chrome in a regulated manner, assuring:

- Thorough penetration and chrome fixation in the whole thickness and leather surface.
- pH regulation during the tanning process. At the end of tanning, a proper Ph is achieved.
- No stains caused by the basifying agent.
- Sudden Cr precipitation is avoided due to the use of energetic alkaline products.
- High Cr exhaustion compared to alkaline basifying agents normally used like Carbonates, Bicarbonates, Formates....
- Evenness of wet-blue color resulting from different productions.
- Human mistakes are avoided during the process (addition of product, time, quantity...)

Omplex products have an alkalinity potential duly studied and a delayed action which grants the results detailed above. Omplex products have other advantages in comparison with traditional products, as they form aggregate Cr complexes that provide full hides, finer grain, lighter color and less reactive leather, implying better penetration of retanning agents, fatliquors and dyestuffs. Additionally it allows to reduce the quantity of chrome used in the tanning operation.

Product	Chemical composition	Apearance	pH A.M. Charge	Product properties	Application
OMPLEX BM	Alcaline basifying salts.	Solid in powder. White.	10,0±0,5 100 Ionic	High basifying ability. Low masking ability. Light stabilizing effect and slow Cr basification.	It is recommended the addition of 0,4-0,6% of OMPLEX BM.
OMPLEX R	Composition of alkaline basifying salts and masking agents.	Solid in powder. White.	- 100 Anionic	Medium basifying ability. Medium masking/complexing ability. Stabilisator effect. Maximum exhaustion of Cr2O3. Minimum pollution. Perfect inner and superficial uniformity of Cr.	8-10% OMPLEX R on total Chromium Salt (0,5-0,6% pelt weight)
OMPLEX ADM	Masking and complexing products composition.	Solid in powder. White.	- 100 Anionic	High masking/complexing agent. Very high masking and stabilisator effect and Cr stable complex/macro-molecules former.	0,8-1,8% OMPLEX ADM in Pickle. 1,3-1,8% OMPLEX ADM in tanning, mixed with Cr or after. 0,6-1,0% OMPLEX ADM in basification or neutralization, mixed with alkaline products.

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MINERAL

General properties

Consolidates the fiber structure, and gives a tighter and smoother grain, good filling.
Better response to dyeing, improving the intensity and evenness of dyes.

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
SERTAN CO	Synthetic-Chrome and proteins.	Solid in powder. Light green.	3,0±0,5 100 Cationic	Very good filling. Recommended for white leathers.
SERTAN CH	Synthetic-Chrome.	Solid in powder. Light green.	3,5±0,5 100 Cationic	Standard.
SERTAN CHB	Synthetic-Chrome and Vegetal Extract.	Solid in powder. Light green.	3,5±0,5 100 Cationic	Give some colour to white leather.
SERTAN CA	Chrome-Aluminium.	Solid in powder. Light green.	2,5±0,5 100 Cationic	Combine the advantage of leathers chromium tanned and aluminium tanning. Leathers with very pale green colour. Suitable for white leathers or very light colours.
SERTAN AL	Aluminium Tanning.	Solid in powder. White.	4,0±0,5 100 Cationic	It is used to improve the leather quality, getting soft leathers, with compacted structure and tighter grain and no-looseness. It is possible to get more intense dyeing and better buffing. It is also for retanning the leathers that were pre-tanned with vegetale extract.

SYNTANS

General properties

Retanning products based on synthetic polymers.

Used to fill and compact the empty and frayed structures of the leather, giving good fullness in flanks and bellies.

Improve adhesion, elasticity, fibre compaction and buffing.

Special to get closer structure and short plush. They are suitable to avoid grain looseness in the leather to be milled.

Special for white leathers. All products have good light fastness.

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
SERTAN ALD	Aldehyde.	Fluid liquid. Colorless.	6,0±1,0 45±2 Anionic	Used in pre-tanning for Wet-white and wet-blue operations, getting white colour and very low oxidation. When used in wet-blue, permit to reduce the chrome content. Improve the physical resistance of leathers.
SERTAN FAD	Organic compound based aldehyde-phophnic.	Fluid liquid. Colourless.	4,0±0,5 45±2 Anionic	Used in pre-tanning for Wet-white and wet-blue operations, getting white colour and very low oxidation. When used in wet-blue, permit to reduce the chrome content. Improve the physical resistance of leathers.
SERTAN BK	Syntan and vegetal polymer.	Solid in powder. Light brown.	4,5±0,5 100 Anionic	Excellent tanning. Great filling and retanning power.
SERTAN BX	Syntan and vegetal polymer.	Solid in powder. Light brown.	5,0±1,0 100 Anionic	Great filling and retanning power.
SERTAN BSF	Syntan and natural polymer.	Solid in powder. Whitish to yellowish.	5,0±0,5 100 Anionic	General dispersing for other retanning products, vegetal extracts, fatliquors or dyes. Better response to dying, improving the intensity and iginalation of dyes.
SERTAN BSP	Syntan.	Solid in powder. Whitish to yellowish.	2,5±0,5 100 Anionic	General dispersing for other retanning products, vegetal extracts, fatliquors or dyes. Better response to dying, improving the intensity and iginalation of dyes.
SERTAN ELB-C	White syntan.	Solid in powder. White.	2,5±0,5 100 Anionic	Whitering power.

SERTAN ELB-N	White syntan.	Solid in powder. White.	3,5±0,5 100 Anionic	Whitering and retanning power.
SERTAN CR-6	Syntan and additives.	Solid in powder. White.	3,0±0,5 100 Anionic	Retanning. Cr6+ exhaustion and prevention.
SERTAN RP	Syntans, sals and additves.	Solid in powder. Brown.	3,0±0,5 100 Anionic	Vegetal Extract dispersing and pre-tanning. Its prepare the leather for fast penetration of vegetal extracts.

VEGETAL EXTRACT

General properties

Pre-tanning, tanning, re-tanning.

Excellent tanning, retanning and filling power in all parts of the leather, getting the maximum uniformity. Depending on the selected product and the used quantity, ± compact, +full or +hard leather will be obtained.

Suitable for all kind of articles when we require full, compact, round, smooth leathers. They consolidate the fibre structure, and give a tighter and smoother grain, good filling.

Better response to dyeing, improving the intensity and evenness of dyes.

All products in the range are completely soluble in hard water at 40-45°C.

All products in the range are 100% natural, formaldehyde free (0%) and 100% biodegradable.

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
SERTAN VHM	Vegetal extract.	Solid in powder. Reddish brown.	4,5±0,5 100 Anionic	Quebracho replacement.
SERTAN VHI	Vegetal extract and natural polymer.	Solid in powder. Reddish brown.	4,5±0,5 100 Anionic	Quebracho replacement base.
SERTAN VEM	Vegetal extract mix.	Solid in powder. Orangish brown.	4,5±0,5 100 Anionic	Quebracho replacement base. Modified. Very good filling.
SERTAN VTM	Vegetal extract.	Solid in powder. Beige.	4,5±0,5 100 Anionic	Tara replacement. Light colour. Good light resistance.
SERTAN VTI	Vegetal extract and natural polymer.	Solid in powder. Beige.	4,5±0,5 100 Anionic	Tara replacement. Light colour. Good light resistance.
SERTAN VXM	Vegetal extract.	Solid in powder. Greenish brown.	4,5±0,5 100 Anionic	Chestnut replacement.

SERTAN VXI	Vegetal extract and natural polymer.	Solid in powder. Greenish brown.	4,5±0,5 100 Anionic	Chestnut replacement base.
SERTAN VVM	Vegetal extract.	Solid in powder. Greenish brown.	4,5±0,5 100 Anionic	Valonea extract. Greenish colour to vegetal tanned leather.
SERTAN VVI	Vegetal extract and natural polymer.	Solid in powder. Greenish brown.	4,5±0,5 100 Anionic	Valonea extract base. Modified. Greenish colour to vegetal tanned leather.
SERTAN VLM-Q	Vegetal extract.	Solid in powder. Beige.	4,5±0,5 100 Anionic	Mimosa replacement. Very light color.
SERTAN VGI	Vegetal extract and natural polymer.	Solid in powder. Light brown.	4,5±0,5 100 Anionic	Mimosa extract base. Soft leathers.
SERTAN VLI	Vegetal extract and natural polymer.	Solid in powder. Beige.	4,5±0,5 33±1 Anionic	Mimosa extract base. Soft leathers. Light colour.
SERTAN VES	Vegetal extract and natural polymer.	Solid in powder. Beige to brown.	4,5±0,5 100 Anionic	Mimosa extract base. Excellent feeling. Economic.

SYNTHETIC POLYMERS

General properties

Retanning products based on synthetic polymers.

Used to fill and compact the empty and frayed structures of leather, giving good fullness in flanks and bellies.

Improves adhesion and fibers compaction. Elasticity. Improves the buffing.

Special to get closer structure and short plush. They are suitable to avoid grain / oseness in the leather to be milled.

Special for white leathers. All products having good light fastness.

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
SERTAN RM	Synthetic polymers and additives.	Fluid liquid. Colorless.	3,0±1,0 50±2 Anionic	Due to its acid pH, it is suitable for pre-tanning, tanning and retanning.
SERTAN PA	Synthetic polymer and additives.	Fluid liquid. Colorless.	4,5±0,5 30±1 Anionic	Due to its pH, it is suitable for pre-tanning, tanning and re-tanning.
SERTAN POL	Synthetic polymers and additives.	Fluid liquid. Colorless.	9,0±0,5 33±1 Anionic	Pre-tanning and tanning agent for all kind of leathers, specially for Wet-white, vegetal tanning and napa garments and shoes. Very good for tight grain.
SERTAN RC	Synthetic polymers and additives.	Fluid liquid. Colorless.	4,5±0,5 30±1 Anionic	General resin for retanning all kind of articles.
SERTAN RR	Synthetic polymers and additives.	Fluid liquid. Colorless.	5,5±0,5 28,5±1 Anionic	General resin for retanning all kind of articles.
SERTAN RPC	Synthetic polymers and additives.	Fluid liquid. Yellowish.	8,0±1,0 20±1 Anionic	Used in final stages of retanning process in order to improve the grain: fullness and smooth. Very suitable for buffed articles and dry, close and short plush. Increase the reactivity of surface when dyeing, getting more color intensity.

NATURAL POLYMERS

General properties

Retanning and filling products based on bio-polymers as alternative to conventional resins like dicyandiamide and melamine.

Used to fill and compact the empty and frayed structures of the leather, giving good fullness in flanks and bellies.

Improve adhesion, elasticity, fibre compaction and buffing.

Special to get closer structure and short plush. They are suitable to avoid grain looseness in the leather to be milled.

Special for white leathers. All products are 100% natural, biodegradable and formaldehyde free (0%).

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
SERTAN D-3	Natural polymers and synthetic.	Solid in powder. White.	5,0±1,0 100 Anionic	Fixation and fibers compactation. White leathers.
SERTAN DC	Natural polymers and synthetic.	Solid in powder. Brown.	5,0±0,5 100 Anionic	High filling and fiber compactation.
SERTAN DX	Natural polymer.	Solid in powder. Light brown.	5,5±1,0 100 Anionic	Excellent filling and fiber compactation.
SERTAN F	Natural polymer and Mineral charges.	Solid in powder. White.	6,0±0,5 100 Anionic	Good filling.
SERTAN FF	Natural polymer and mineral charges.	Solid in powder. White.	7,5±0,5 100 Anionic	Economic Filler.
SERTAN FP	Natural polymer and Mineral charges.	Solid in powder. Whitish to yellowish.	6,0±0,5 100 Anionic	Very good filling.

SERTAN LP	Filler based on natural polymers.	Fluid liquid.	5,5±0,5	Very good filling
		Dark brown.	38±2	
			Anionic	
SERTAN RD	Natural polymers.	Solid in powder.	5,0±0,5	Filling, fixation and fiber compactation. White leathers.
		White.	100	
			Anionic	

NEUTRALIZING, DISPERSING

General properties

Due to their buffering properties they prepare the leather to accept the following retanning agents and lead to a progressive, moderate, uniform and effective neutralisation, getting an optimal pH to work with retanning agents, fatliquors and dyes.

Neutralizing agents with buffering and soft de-acidifying effect, reducing the affinity of retanning agents, protecting the grain against overtannage and giving smooth and tight grain, no-looseness, fullness.

They reduce de cationic character of wet-blue and wet-white leathers and facilitate the penetration and dispersion of anionic retanning products without causing any astringency or losing any physical property. Improve the fat dispersion used in the fatliquoring bath.

They can be used in dyeing when dyes dispersing is required and also to achieve bright color dyes and increase the shades.

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
SERTAN N-N	Alcaline salts and masking.	Solid in powder. White.	8,0±0,5 100 Anionic	Standard neutralizing and complex-forming agent and mild basifying agent.
SERTAN N-PAK	Alcaline salts and masking.	Solid in powder. Whitish to yellowish.	7,5±0,5 100 Anionic	Excellent buffering ability. It neutralizing of chrome-tanned leather. It can be used in retanning as a dispersing agent of retanning and dyes.
SERTAN N-AG	Alcaline salts and masking.	Solid in powder. White.	6,0±0,5 100 Anionic	Maximum buffering ability. It masks and stabilizes the chrome liquors, providing very full leathers. Improves the softness and fullness of the leather and the elasticity of the grain. It also improves the grain firmness also. Enhances the push on suede articles. It indreases the dye color shades and speeds up vegetable retanning.
SERTAN ND	Naphthalene syntan.	Solid in powder. Light brown.	9,5±1,0 100 Anionic	Dispersing, can be used like neutralization agent in order to improve the penetration of retanning products and the vegetal extracts specially. In dyeing, thanks to his strong anionic character, holds up the levelling, dispersions and penetration of dyestuff.

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CRUDE FATLIQUORS

General properties

Fatliquors that have experienced no chemical reaction or special treatment.

Totally insoluble in water.

Leathers with very good round feel, filling and fullness can be obtained.

Excellent fiber lubrication, providing a better silky cut, specially in vegetal tanned leathers.

Good light resistance.

Greasy-soft feel.

During fatliquoring process, combined with other fatliquors, improve the lubrication power of fatliquor-mixture and better greased leathers both in the surface and the inside are achieved.

Fatliquors specially used in processes where strong drying is applied and when its necessary to a greasy or overgreased.

In finishing, we can obtain an special grain lubrication when applied superficially.

As these fats remain mainly on surface, they can improve the dyeing intensity and offer certain darkness to the leather.

Product	Chemical composition	Apearance	pH A.M. Charge	Res. Luz Tacto	Application:
SEROIL PBT	Natural origin fat.	Fluid liquid.	NA	Good	<p>General fatliquoring, mixed with other fatliquors. All kind of leathers: % on shaved weight: 0,5-2% Top or final overgreasing : % on shaved weight : 0,5-1,0%. Can be added along with a cationic fatliquor like SEROIL SC-B (1%) On crust leathers or semi-dried, like superficial overgreasing, specially in vegetable tanned leathers. Table stuffing grease, by hand or roller : 100%</p>
		Opalescent.	100	Greasy	
		Brown.	Anionic		
SEROIL PB	Natural and synthetic origin fat.	Fluid liquid.	NA	Good	
		Opalescent.	100	Greasy-soft	
		Brown.	NA		
SEROIL CC	Quality natural origin fat.	Fluid liquid.	NA	Good	
		Transparent.	100	Greasy	
		Yellowish.	NA		
SEROIL OF	Synthetic origin fat.	Fluid liquid.	NA	Excellent	
		Transparent.	100	Soft	
		Yellowish.	NA		

SULPHATED FATLIQUORS

General properties

Sulphated fatliquors are produced by reaction of fats with sulphuric acid.

Leathers with very good round feel, filling or fullness can be achieved.

Provides soft leathers with good tight grain and elasticity.

Good light fastness.

Due to the excellent sulphatation grade, QUIMSER fatliquors provide a uniform distribution of fat in the inside of leather.

Very useful for all kind of articles like cow, sheep and goat.

Especially suitable for vegetable tanning leather.

Product	Chemical composition	Appearance Transparenci Color	pH A.M. Charge	Res. Luz	Product properties
SEROIL PLSN	Compound based in sulphated fatliquor.	Fluid liquid. Transparent. Brown.	7,5±0,5 65±2 Anionic	Good	General application . Napa, shoes, leather goods.
SEROIL TL	Sulphated fatliquor	Fluid liquid. Transparent. Brown to reddish.	7,5±0,5 70±2 Anionic	Good	General application . Napa, shoes, leather goods. High concentration of sulphated base. It is very suitable for other quality sulphated fatliquor production.

SULPHITED FATLIQUORS

General properties

Sulphited fatliquors are produced by reaction of fats with sodium bisulphite.

In general they give smooth and very soft leathers but no filling effect.

Provide hang hides with high inner softness.

Excellent stability to tanning baths and electrolytes (acid and alkaline).

Can be used in all production stage, like tanning or retanning.

Excellent penetration, distribution and fixation of fat.

Can be used as single fatliquor. Specially TTK and CMT.

Complete relaxation of the fibers cause excellent milling properties.

Light fastness will depend on the type of fatliquor.

Product	Chemical composition	Appearance Transparenci Color	pH A.M. Charge	Res. Luz	Product properties
SEROIL TTK	Natural oils and sulfited synthetic.	Fluid liquid. Transparent. Yellowish.	7,5±0,5 70±2 Anionic	Good	In difference with the other fatliquors, it has many sulphated fatliquors characteristics. It can be used as sulphated fatliquor. It improve the dyestuff igation in dying process avoiding to low the dyes intensity. Very recommended for Shoe-upper articles.
SEROIL CMT	General mix of natural and synthetic sulphited fats.	Fluid liquid. Transparent. Brownish.	7,5±0,5 57,5±2 Anionic	Good	Can be used like single/main fatliquor. Can get a medium level characteristics like superficial touch, superficial and inner soft, medium roundness, light looseness. Good dye igation.
SEROIL MQ-SP	Based on COD oil.	Fluid liquid. Transparent. Dark brown.	7,0±0,5 85±2 Anionic	Good	Deodorized. Very soft leathers.
SEROIL MQ-9	Natural and synthetic Sulphited fats	Fluid liquid. Transparent. Brown-green.	8,5±0,5 85±2 Anionic	Poor	High soft level in wet-blue leathers. Very good penetration and fixation.

SEROIL SU	Natural oils and sulfited synthetic.	Fluid liquid. Opalescent. Light brown.	7,5±0,5 70±2 Anionic	Good	Deodorized. Very soft leathers.
SEROIL MS	Natural and synthetic Sulphited fats.	Fluid liquid. Transparent. Dark brown.	7,5±0,5 70±2 Anionic	Poor	Excellent results used in vegetal tanning leathers. Give very light colour leathers without oxidation. High soft level in wet-blue leathers.
SEROIL SMZ	Based in synthetic COD and Sperm oil.	Fluid liquid. Opalescent. Light brown.	7,5±0,5 50±2 Anionic	Good	Economic. In difference with the other fatliquors, it has many sulphated fatliquors characteristics. It can be used as sulphated fatliquor. It improve the dyestuff igation in dying process avoiding to low the dyes intensity. Very recommended for Shoe-upper articles.
SEROIL P	Natural and synthetic Sulphited fats.	Fluid liquid. Opalescent. Brown to reddish.	7,5±0,5 50±2 Anionic	Poor	Economic. For all kind of articles.
SEROIL PT	Natural and synthetic Sulphited fats.	Viscous liquid. Transparent. Brown.	7,5±0,5 50±2 Anionic	Poor	Economic. Special for shoe-upper, security shoes. Good lubrication having low softness.

SYNTHETIC FATLIQUORS AND POLYMERS BASE

General properties

Synthetic fatliquors and polymers based on petrol derivatives.

General use fatliquor for all kind of leathers, chrome tanned, vegetal tanned or mixed as well.

They can be combined with natural fats, improving the stability of general fatliquor mixture.

They have good leather fixation and excellent penetration, obtaining a fast and uniform distribution of fat through the leather.

Produce leathers with tight grain and springy feel. Suitable when light weight leathers are required. Do not reduce the fibers compactation.

Odourless fatliquors or light-pleasant smell

Inoxidable and unrancid fatliquors. Good electrolytes stability. Can be used in tanning, retanning, acid and alkaline baths. Excellent buffing behaviour.

Product	Chemical composition	Apearance Transparenci Color	pH A.M. Charge	Res. Luz	Product properties
SEROIL SOF	Synthetic-waxy polymer.	Fluid liquid. Opalescent. Yellowish.	7,5±0,5 45±2 Anionic	Excellent	Especial for white leathers. It improves and can get white leathers with bluish tone and cleaner leathers. It improves the bleaching and cleaning of wool leather. Leathers with good tight grain and spring feel are obtained. Garments, gloves, double face, upholstery.
SEROIL SPB	Synthetic polymer.	Fluid liquid. Transparent. Yellowish.	7,5±0,5 70±2 Anionic	Excellent	Dry feel. Do not affect the dyestuff intensity. Improve the emulsion and penetration of fatliquoring mixture.
Seroil SPC	Synthetic polymer.	Fluid liquid. Transparent. Yellowish.	7,5±0,5 60±2 Anionic	Excellent	Dry feel. Do not affect the dyestuff intensity. Improve the emulsion and penetration of fatliquoring mixture.
SEROIL FO	Phosphoric polymer.	Fluid liquid. Transparent. Yellowish.	7,5±0,5 60±2 Anionic	Excellent	Soft and smooth leathers. All kind of leathers.
SEROIL FE	Phosphoric polymer.	Fluid liquid. Transparent. Beige	7,5±0,5 50±2 Anionic	Excellent	Soft and smooth leathers. All kind of leathers.
SEROIL JP	Waxy-Synthetic polymer.	Viscous liquid. Opalescent. White.	7,5±0,5 50±2 Anionic	Excellent	Waxy-smooth feel. Garments, Napa, natural articles whe good feel is required. Low waterproofing effect.

TOUCHING FATS

General properties

Can be used like single fatliquor. It is a very concentrated fatliquor. Since it is a liquid product, it is easy to use and avoid problems, like separation, putrefaction and others.

Product	Chemical composition	Apearence Transparenci Color	pH A.M. Charge	Res. Luz	Product properties
SEROIL L-9	Polymer fatliquor in Lecithin base.	Semi viscous liquid. Opalescent. Dark brown.	7,5±0,5 90±2 Anionic	Good	Can be used like single fatliquor. It is a very concentrated fatliquor. Since it is a liquid product, it is easy to use and avoid problems, like separation, putrefaction and others.
SEROIL L	Polymer fatliquor in Lecithin base.	Pasty. Opalescent. Yellowish.	7,5±0,5 50±2 Non-ionic	Good	Pleasant feel and inner lubrication.
SEROIL SLL	Polymer fatliquor in Lecithin base.	Fluid liquid. Transparent. Brown.	7,5±0,5 49±2 Anionic	Good	Can be used like single fatliquor. Since it is a liquid product, it is easy to use and avoid problems, like separation, putrefaction and others.
SEROIL LAN	Polymer fatliquor in Lanolin base.	Pasty. Opalescent. Yellowish.	7,0±1,0 50±2 Anionic	Good	Low penetration. Grassy feel. Low waterproof effect. Recommended for pull-up articles. Improve the polishing and burning effect.
SEROIL SC-B	Cationic polymer-fat.	Fluid liquid. Opalescent. White.	3,0±0,5 20±1 Cationic	Excellent	Used to brighten color during dying process and feel increase the intensity of shades. Suitable to give superficial pleasant feel in all articles, specially in velour or double face. To fix the anionic products at the end of wet-end process.

SPECIAL FATS

General properties

Several special fatliquors range for special Applications/articles.
Having diverse chemical composition.

Product	Chemical composition	Apearance Transparenci Color	pH A.M. Charge	Res. Luz	Product properties
SEROIL CL	Synthetic fats and surfactants.	Fluid liquid. Opalescent. White.	7,0±0,5 45±2 NA	Excellent	Especial composition used as a complement in fatliquoring process, to improve the emulsion of fat mixture, penetration and softness of leathers. Can be used in all processes of leather and all kind of articles when softness, lubrication and light weight is required. Specially for gloves, garments, double-face, furs... Stable to electrolytes. It can be applied by brush or sponge (fur skins).
SEROIL KM-24	Natural and synthetic fat.	Viscous liquid. Opalescent. Brown.	NA 100 NA	Good	Fatliquor range of fats known as kicking oils. They are mainly used for furs skins like mink, fox, marmot, beaver, rabbit... They have a very good penetration in the inner fibers of leather. The excess of fat is easy removed by drumming the dry leathers with sawdust. Good shine and silky hair is obtained.
SEROIL MLL	Semi-Crude natural fats.	Pasty. Opalescent. Yellowish.	NA 75±2 Anionic	Poor	Special fat for vegetalble tanned articles. Provides extremely good softness, round feel, mellowness and greasy touch. Extrem lubrication. Give a very sweet cut when trimming or moulding the leather.
SEROIL MLL-2	Natural fats.	Pasty. Opalescent.	NA 100	Poor	Special fat for vegetal tanned articles. Provides extremely good softness, roundness, mellowness and greasy touch. Lubrication is extreme. Give a very sweet cut when trimming or sharpening the leather.
SEROIL MNO	Sulfited, semicrude and crude natural fats.	Viscous liquid. Opalescent. Brown.	7,0±0,5 80±2 Anionic	Poor	Special fat for vegetal tanned articles. Provides extremely good softness, roundness, mellowness and greasy touch. Lubrication is extreme. Give a very sweet cut when trimming or sharpening the leather.

SEROIL VS	Natural fats and sulphated synthetics.	Fluid liquid. Opalescent. Light brown.	7,0±0,5 65±2 Anionic	Good	Special fatliquor for sole leather and vegetable also articles. It can be also used for other articles when looking for a good penetration, fat distribution and homogeneous colored hides with tight grain and no looseness. Good light fastness also. In Sole/Vegetable leather is very stable fat avoiding mud formation and dye stains. In suede articles it provides silky feel and good final shine.
SEROIL WPS	Greasing fat polymer.	Viscous liquid. Opalescent. White.	6,5±0,5 51±2 Anionic	Excellent	Waterproofing fatliquor. Medium level. Recommended for soft articles, like gloves, garments, nappa. To be used like single fat. Application: It is recommended do not use any surfactant during the process and make a strong neutralisation, not lower than pH 4,8. To be used like single fat. The maximum effect is achieved after fixation of fat at the end of process with a metallic salt (Cr, Al, Zr).
SEROIL WPH	Greasing fat polymer.	Viscous liquid. Opalescent. White.	6,5±0,5 51±2 Anionic	Excellent	Waterproofing fatliquor. High level. Recommended for medium-soft articles, like shoe-upper, leather goods, upholstery. To be used like single fat. Application: It is recommended do not use any surfactant during the process and a make strong neutralisation, not lower than pH 4,8 The maximum effect is achieved after fixation of fat at the end of process with a metallic salt (Cr, Al, Zr).
PLASTISER RA	Sulphated castor oil. Ammonium salt.	Viscous liquid. Transparent. Amber.	7,5±0,5 80±2 Anionic	Good	Special fat having many of applications in multiply of sectors. Some of these product applications are: softening, soaking/humectation, degreasing, leveller, dispersing, emulsifier, foam modification, superficial tension agent, plasticizer, solubiliser... In the leather industry, like quality fatliquor , touching agent and dyeing levelling/intensification in de last fatliquoring stage and finishing.
PLASTISER RS	Sulphated castor oil. Sodium salt.	Viscous liquid. Transparent. Amber.	7,0±0,5 75±2 Anionic	Good	Special fat having many of applications in multiply of sectors. Some of these product applications are: softening, soaking/humectation, degreasing, leveller, dispersing, emulsifier, foam modification, superficial tension agent, plasticizer, solubiliser... In the leather industry, like quality fatliquor , touching agent and dyeing levelling/intensification in de last fatliquoring stage and finishing.

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CASEIN. NATURAL GLOSSES
General properties

When we wish to obtain natural appearance .

When we need to obtain transparency and high gloss.

Smooth feel, warmth and natural feel.

They can be ironed at high temperature.

They are the base of polishable finishings.

Special for vegetable tanned leathers and shoe finishing.

Product	Chemical composition	Film Hardness	% A.M.	pH	Appearance	General properties
SERBRILL BB	Modified Casein.	Soft-Elastic	18±1	9,0±0,5	Yellowish semi fluid liquid.	Thermoplastic and glazed
SERBRILL BBW	Modified Casein with wax.	Soft	13±1	8,5±0,5	Yellowish semi fluid liquid.	Natural finishing.
SERBRILL BHV	Modified Casein with wax.	Medium soft	10±1	8,5±0,5	Yellowish semi fluid liquid.	Natural finishing. Shoe finishing
SERBRILL ZB-21	Modified Casein with wax.	Hard. Crystalline	13,5±1	8,5±1,0	Yellowish semi fluid liquid.	Natural finishing. Shoe finishing

FILLERS, COVERAGE, MATTING AGENTS

General properties

They are used in ground compositions to improve the leathers grading due for their coverage.

Improve the finishes covering.

Give matting effect, opacity or crack/breaking effect.

Excellent results are achieved in corrected grain, vulcanised split, hides having superficial scratches.

When we need to decrease the thermoplastic effect.

They improve the embossing film properties due to their hardness.

Product	Chemical composition	Film Hardness	% A.M.	pH	Appearance	General properties
SERBRILL F-25	Filler based in inorganic charges	Hard-Dense	20±2	8,5±1,0	Whitish or yellowish viscous liquid.	Aqueous
SERBRILL F-50	Filler based in inorganic charges	Hard-Dense	42±2	8,5±1,0	Whitish or yellowish viscous liquid.	Aqueous
SERMAT W-30	Filler and matting agent based in organic charges	Hard-Light weight	9±0,5	7,5±0,5	Whitish viscous liquid.	Aqueous
SERMAT LS-31	Matting agent based in organic charges.	Hard-Dense	21±2	NA	Yellowish viscous liquid. Solvent base	

WAXES
General Properties

Warm/waxy/smooth touching. Natural appearance of finishing.

Grounding. Filling.

Polishable. Gloss and transparency.

Especial Effects.

To reduce films plasticity.

Shoe finishing.

All the waxes in this range are non-ionic.

Product	Chemical composition	Film Hardness	% A.M.	pH	Appearance	General properties
SERBRILL W-38-C	Carnauba	Hard	38±2	4,0±0,5	Whitish-yellowish fluid liquid.	Natural effect. Shoe shine
SERBRILL W-38	Carnauba	Hard	20±2	7,5±1,0	Whitish-yellowish fluid liquid.	Natural effect. Shoe shine
SERBRILL W-52	Synthetic-Ester	Medium	17±1	5,0±1,0	Whitish-yellowish fluid liquid.	Burning effect in vegetable leather
SERBRILL W-53	Paraffin base	Soft	20±2	8,5±0,5	White fluid liquid.	Grounding, Filling. Reduce sticking during ironing.
SERBRILL W-58/B	Special	Medium	15±1	8,5±1,0	White viscous fluid liquid.	Snow wax. Strong whiteness effect
SERBRILL W-61	Soft wax and fats emulsion	Soft. Warm-waxy feel.	13±0,5	7,0±0,5	White viscous fluid liquid.	Warm silky feel. Special for napa garment.
SERBRILL W-63	Polyethylene	Very Hard. Cristal	17,5±1	9,0±1,0	Yellowish viscous fluid liquid.	Cristal article. Glazing. Shine
SERBRILL W-74	Paraffin	Soft	40±1	6,5±0,5	White fluid liquid.	Light pull-up. Timber. Grounding. Filling. Reduce sticking during ironing.
SERBRILL W-95	Synthetic	Medium-Soft	15±2	8,0±0,5	White fluid liquid.	Polishing-burning effect on chrome-tanned leathers.

ACRYLIC RESINS

General properties

Used when we are interested in to increase the flexometrías of finishing articles.

Offers a good covertures.

To increase the wet rub fastness of natural finishing`s based in was and casein.

Product	Film Hardness	% A.M.	pH	Appearance	General properties
SERCRYL A-222	Medium	20±1	8,0±1,0	Opalescent white fluid liquid.	Universal use. Grounding. Good Embossing properties.
SERCRYL A-222-C	Medium	35±1	7,0±1,0	Opalescent white fluid liquid.	Universal use. Grounding. Good Embossing properties.
SERCRYL A-225	Medium	25±1	8,0±0,5	Opalescent white fluid liquid.	Universal use. Grounding. Good Embossing properties.
SERCRYL A-400	Extra-Very-Hard	45±2	3,5±1,0	White fluid liquid.	Crack-break film. Crack-break articles in combination with A-410.
SERCRYL A-410	Very-Hard	40±1	7,0±1,0	White fluid liquid.	Crack-break film. To harder films. Crack-break articles in combination with A-400.
SERCRYL A-450	Very soft	20±1	9,0±1,0	Yellowish fluid liquid.	Anchorage. Light films. Enhances penetration and anchorage of ground coats.
SERCRYL A-452	Soft	8±1	8,0±0,5	Yellowish transparent fluid liquid.	Very light film. Light film and natural finishing. Nappa
SERCRYL A-460	Medium-Soft	40±1	3,0±0,5	White fluid liquid.	Universal use. Good coverage. Grounding. Good filming properties
SERCRYL A-470	Soft	39±2	4,0±1,0	White fluid liquid.	Light film . Nappa Garment
SERCRYL A-490	Medium-Soft	37±2	8,0±1,0	Yellowish fluid liquid.	Universal use. Good gloss. Ground coat. Shoe finishing
SERCRYL A-491	Medium	36±1	7,5±0,5	White fluid liquid.	High coverage. Excellent film forming. Corrected grain/Split finishing
SERCRYL E-150	Hard	30±1	3,0±1,0	White fluid liquid.	Thickener by alkaline. To change finishing viscosity.

IMPREGNATION
General properties

Micro-particle resins used in order to improve the looseness and grain break of crust leathers (specially cow and buffalo).

To prepare the leather for grounding and general finishing.

To improve the anchorage of ground coats or to regulate the penetration of finishings.

All resins are very soft and don't give harder leather.

Good buffing behaviour.

We get smooth, very full and compacted grain.

Product	Chemical composition	Film Hardness	% A.M.	pH	Appearance	General properties
SERCRYL A-450	Acrylic resin	Very soft	20±1	9,0±1,0	Yellowish fluid liquid.	Anchorage. Light films. Enhances penetration and anchorage of ground coats.
SERCRYL A-459	Acrylic resin	Very soft	35±2	8,0±1,0	Whitish fluid liquid.	Impregnation. Full or corrected grain. Very high penetration even in full grain
SERCRYL A-470	Acrylic resin	Soft	39±2	4,0±1,0	White fluid liquid.	Light film . Nappa Garment
SERCRYL PU-304	0	Soft. Tacking	20±1	7,0±0,5	Colourless fluid liquid.	To increase anchorage to all kind of finishings. High penetration. Special for anchorage in waterproofing articles.
PENTSER 05	Solvent, water and additives.	-	28±2	6,0±0,5	Yellowish fluid liquid.	Standard penetrator. Special for finishes.
PENTSER 06	Solvent, water and additives.	-	56±1	9,5±1,0	Colourless fluid liquid.	All kind of needs. Strong penetrator.
PENTSER 06-N	Solvent, water and additives.	-	15±1	6,0±0,5	Colourless fluid liquid.	Special for finishes. Economical penetrator.
PENTSER 08	Solvent	-	100	6,0±0,5	Colourless fluid liquid.	Special for impregnation and anilines. Strong penetrator.

PU-RESIN

General Properties

Used to increase the flexometries of finishing coats. Good coverage.

To increase the Rub fastness and wet resistance.

To increase the cold-crack film at low temperature.

To increase the Solvent resistance.

Prduct	Appearance	% A.M.	pH	Film Hardness	General properties
SERCRYL PU-3	Non-Elastic	35±1	8,0±0,5	Semi-transparent dense liquid.	Top-Coat. High Gloss. Excellent light fastness. Nitro-lacquer substitution. Excellent rubbing fastness.
SERCRYL PU-301	Very-Elastic	40±2	7,5±0,5	Milky fluid liquid.	Standard PU. Grounding. All articles. Excellent printing properties and coverage.
SERCRYL PU-303	Elastic-Back	40±2	7,2±0,5	Whitefluid liquid.	High film recovery. Excellent for any finishings. High solvent resistance.
SERCRYL PU-304	Soft. Tacking	20±1	7,0±0,5	Colourless fluid liquid.	To increase anchorage to all kind of finishings. High penetration. Special for anchorage in waterproofing articles.
SERCRYL PU-323	Elastic-Back	20±2	6,5±1,0	White fluid liquid.	High film recuperation. Excellent for any finishing. High solvents resistance.
SERCRYL PU-345	Elastic	35±1	7,0±1,0	Colourless viscous liquid.	Top-Coat. Glossy Patent. High film. Very high gloss.
SERCRYL PU-351	Very-Elastic	20±1	7,5±0,5	White fluid liquid.	Standard PU. Grounding. All articles. Excellent printing properties and coverage.
SERCRYL PU-M2	Medium-Elastic	23±1	7,5±0,5	White fluid liquid.	Matt PU. High physical and chemical fastness. All articles and special for upholstery. Final top also. Pleasant feel.
SERLASTIC KI-25	Very Elastic	6±0,5	NA	Transparent colourless fluid liquid.	Solvent PU. Glossy. High gloss. Nitro-lacquer substitution.

ESPECIAL RESINS

General properties

To be used as sole resin, adding pigment and lacquers.

The film characteristics can be modified by adding other products.

Giving the coverage, anchorage, elasticity and adequated touching according the requirements of article.

Product	Film Hardness	% A.M.	pH	Appearance	General properties
SERCRYL R-28	Elastic. Good touching	14±1	8,0±0,5	Whitish-yellowish viscous Liquid.	Good-light coverage. Good feel. Garment nappa. Double face.
SERCRYL A-102	Medium-elastic-hard	25±1	7,0±0,5	Whitish-yellowish viscous Liquid.	Very good coverage. No plasticity. Lining. Shoes.
SERCRYL AFR	Elastic	22±1	7,0±0,5	Whitish-yellowish viscous Liquid.	Very Good coverage. Good embossing properties. Shoes. Leather goods, furniture. Upholstery.
SERCRYL AFC	Elastic	18±1	7,5±0,5	Whitish-yellowish viscous Liquid.	Very Good coverage. Good embossing properties. Shoes. Leather goods, furniture. Upholstery.
SERCRYL ALX	Medium-elastic-soft	23±1	8,5±0,5	Whitish fluid liquid.	Good coverage. Shoes. Leather goods.
SERCRYL A-491	Medium	36±1	7,5±0,5	White fluid liquid.	High coverage. Excellent film forming. Corrected grain/Split finishing

LAMINATION

General properties

Special adhesives and auxiliaries for paper-film and other film material

Different adhesion power and resistances.

Good fixations on films.

Product	Film Hardness	% A.M.	pH	Appearance	General properties
SERCRYL A-460	Medium-Soft	40±1	3,0±0,5	White fluid liquid.	Universal use. Good coverage. Grounding. Good filming properties
SERCRYL KPO	Medium-Soft	27±1	7,5±1,0	White fluid liquid.	Strong adhesive. Good water resistance
SERCRYL KP	Medium-Soft	49±1	7,0±1,0	White fluid liquid.	Very strong adhesive. Water and solvent resistance.
SERLAC LS-L	Special for lamination	10±1	NA	Colourless fluid liquid.	Non-coloured special lacquer for aniline effects. To fix anilines on metal-papers.
SERANIL	Anilines.	-	-	Fluid liquid. Several colours	Aniline range of colors for special effects. Special anilines for film coloration

LACQUERS. AQUEOUS BASE
General Properties

High and natural gloss.

Good Rubber fastness.

Good film fixation.

For intermediate layers and final tops.

To improve the rub fastness water base lacquers can be reticulated with our Fix-Top RI.

Product	Film	Hardness	% A.M.	pH	Appearance	General properties
SERLAC LW-2	High gloss	High gloss	20±2	8,0±0,5	Viscous liquid yellowish	Special rubbing fastness. Shoe upper. Leather goods.
SERLAC LW-5	High gloss	High gloss	14±1	8,0±0,5	White emulsion	Good rubbing fastness. Shoe upper. Leather goods.
SERLAC LW-37	Standard gloss	Standard gloss	11±1	8,0±0,5	White emulsion	Natural feel. Nappa. Garments. Upholstery.
SERLAC LW-5M	Matt lacquer	Matt lacquer	16±1	8,0±0,5	White emulsion	Good rubbing fastness. Shoe upper. Leather goods. Upholstery
SERLAC LW-MT	Matt lacquer	Matt lacquer	11,5±1	8,0±0,5	White emulsion	Natural feel. Nappa. Garments. Upholstery.
SERLAC LWN-55	Black lacquer	Black lacquer	12±1	8,0±0,5	Black emulsion	Natural feel. All black finishings.
SERLAC LWN-57	Black lacquer	Black lacquer	15±1	8,0±0,5	Black emulsion	Deep black. All black finishings.
SERLAC SW-H	Biphasic lacquer	Biphasic lacquer	24±2	7,0±1,0	Dark yellow solution	High rubbing fastness. All kind of finishing. Water and solvent soluble. Low flammability.
FIX-TOP RI	Cross-linking	Cross-linking	100	NA	Transparent to yellowish	Cross-linking. To improve dry and wet rubbing fastness

LACQUERS. SOLVENT BASE

General Properties

High and natural gloss.

Rubber fastness.

Good film fixation. Quick drying.

Product	Chemical composition	Use	% A.M.	pH	Appearance	General properties
SERLAC LS-1	Non-Coloured nitrocellulose	To be Diluted with solvent	14±1	NA	Transparent yellowish fluid viscous.	All kind of articles. Very good when mixed with nacarous pigments.
SERLAC LS-21	Non-Coloured nitrocellulose. Low viscosity	Ready to use.	12±1	NA	Transparent yellowish fluid liquid.	All kind of articles. Shoe finishings
SERLAC LS-25	Non-Coloured nitrocellulose. Very low viscosity	Ready to use.	11,5±1	NA	Transparent yellowish fluid viscous.	All kind of articles. Shoe finishings
SERLAC LSN-17	Black nitrocellulose	To be Diluted with solvent	15±1	NA	Black fluid liquid.	All kind of black articles. Black-reddish tone
SERLAC BLACK SB	Black nitrocellulose	To be Diluted with solvent	14±1	NA	Black fluid liquid.	All kind of black articles. Black-bluish tone
SERLAC IG-15	Non oxidable Acetobutirato	To be Diluted with solvent	15,5±1	NA	Colourless fluid liquid transparent.	White leathers.
SERLAC IG-18	Non oxidable Acetobutirato	Ready to use	9±1	NA	Colourless fluid liquid transparent.	White leathers. Ready to use. Shoe finishings.
SERLAC LSB-488	White Acetobutirato	To be Diluted with solvent	18±1	NA	White fluid viscous.	All kind of white articles.
SERLASTIK KI-25	Non oxidable PU	Ready to use	6±0,5	NA	Colourless fluid liquid transparent.	Special articles. Gloss.

WATERPROOFING-WATER REPELLANCY

General Properties

To be applied in suede, no buck, split and full grain.

To stop/reduce some finishing penetration.

Do not form film.

Pleasant touching.

Product	Chemical composition	Solution	% A.M.	pH	Appearance	Application
REPELANT ZW6/D	Water base	Dilutable with Water	3±1	6,0±1,0	Whitish fluid liquid.	Applied by spry-gun with or without dilution.
REPELANT Z-36	Solvent base	Dilutable with Butyl Acetate	8,5±0,5	NA	Colourless fluid liquid transparent.	Applied by spry-gun with or without dilution.



SPECIAL FINISHING OILS AND FATS
General Properties

Strong effect Pull-up oils.

Conferees smooth surface feel and some water-repellence.

Polishable.

To be used in all kind of leather, specially in corrected, full grain, timbers, full vegetable leather... greased articles.

You can get different articles when mixed with waxes.

Applied by gun (when diluted) or directly by airless or roller (diluted or without dilution).

After use SA-3 and SA-4 machinery is easily cleaned with water.

Product	Solution	% A.M.	pH	Appearance	General properties
SERGRAS SA-3	Water soluble	100	7,5±0,5	Yellowish fluid liquid.	Soft-oil feel. Can be mixed with wax emulsions.
SERGRAS SA-4	Oily-Greasy feel.	100	7,5±0,5	Brown liquid semi-viscous.	Oily-greasy feel. Can be mixed with wax emulsions. Little or none darking effect.
SERGRAS 4000	Solvent-soluble.	100	NA	Yellowish fluid liquid.	Excellent feel. Excellent filming effect. Finished leather appearance with just one product.
SERGRAS 4700	Solvent-soluble.	100	NA	Yellowish fluid liquid.	Dry feel. Pull-up oil.
SERGRAS 4800	Solvent-soluble.	100	NA	Yellowish fluid liquid.	Medium-dry feel. Pull-up oil.
SERGRAS 4900	Solvent-soluble.	100	NA	Yellowish fluid liquid.	Medium-greasy feel. Pull-up oil. Water repellence.
SERGRAS 5000	Solvent-soluble.	100	NA	Fluid semi- viscous dark brown	Greasy-Touch. Pull-up oil. Touching. Water repellency.
SERGRAS 5100	Solvent-soluble.	100	NA	Brown liquid semi-viscous.	Greasy-feel.Pull-up oil. Water repellency.

PENETRATORS
General Properties

When we need to improve the penetration of ground finishing.

To dilute impregnation resins.

Product	Appearance	% A.M.	pH	General properties
PENTSER 04-S	Yellowish fluid liquid.	100	6,0±0,5	Special to improve Seranil dilution and penetration
PENTSER 05	Yellowish fluid liquid.	28±2	6,0±0,5	Standard penetrator. Special for finishes.
PENTSER 06	Colourless fluid liquid.	56±1	9,5±1,0	All kind of needs. Strong penetrator.
PENTSER 06-N	Colourless fluid liquid.	15±1	6,0±0,5	Special for finishes. Economical penetrator.
PENTSER 08	Colourless fluid liquid.	100	6,0±0,5	Special for impregnation and anilines. Strong penetrator.

FEELING AGENTS

General Properties

To improve and change the feeling and touching on finishings.

To avoid the dry feel, plastic feel or tackiness.

To improve the wet and dry rub fastness.

To be used in final tops of resin or lacquer (solvent-emulsion).

Product	Chemical composition	Feeling	% A.M.	pH	Appearance	General properties
SERBRILL W-61	Soft wax and fats emulsion	Soft. Warm-waxy feel.	13±0,5	7,0±0,5	White viscous fluid liquid.	Warm silky feel. Special for napa garment.
SERGRAS SA-4	Fats mix. Dilutable with water	Oily-Greasy feel.	100	7,5±0,5	Brown liquid semi-viscous.	Oily-greasy feel. Can be mixed with wax emulsions. Little or none darking effect.
SERTACK W-1	Silicone and fats emulsion	Greasy-slippery feel	x	8,0±1,0	White fluid liquid.	To be mixed with lacquer emulsions. Special for garments and double face
SERTACK W-47	Silicone emulsion	Slippery feel	26±1	7,0±1,0	White fluid liquid.	To be mixed with lacquer emulsions.
SERTACK W-50	Silicone emulsion	Slippery-light greasy feel	21±1	8,0±0,5	White fluid liquid.	To be mixed with lacquer emulsions.
SERTACK W-125	Silicone and fats emulsion	Slippery-light waxy feel	8,5±0,5	6,0±0,5	White fluid liquid.	To be mixed with lacquer emulsions. Special for garments and double face
SERTACK S-111	Solvent silicone	Slippery feel	25±1	NA	Colourless fluid liquid.	To be mixed with solvent lacquers.
SERTACK S-112	Solvent silicone	Slippery-light greasy feel	17±1	NA	Colourless fluid liquid.	To be mixed with solvent lacquers.

CATIONIC
General Properties

To obtain very good filling effect and opacity.

Cationic products reduce the leather surface absorption and improve the break of finishing.

They are polishable and gazable.

Give warm and waxy feel.

Product	Chemical composition	Film hardness	% A.M.	pH	Appearance	General properties
SERBROUND K-4	Cationic ground	Soft	20±2	3,5±0,5	Whitish fluid liquid.	Grounding base, feel. Coverture
SERGROUND K-UN	Cationic ground	Medium-soft	15±1	3,5±0,5	Whitish fluid liquid.	Grounding base, feel. Coverture
SERBROUND K-UP	Cationic ground	Medium-soft	13±1	3,5±0,5	Whitish fluid liquid.	Grounding base, feel. Light Coverture, Light cationic.
SERCRYL PU-AK	PU resin	Soft	20±1	5,0±1,0	Whitish fluid liquid.	Grounding base, feel. Coverture
SERBRILL W-38-C	Carnauba	Hard	38±2	4,0±0,5	Whitish-yellowish fluid liquid.	Natural effect. Shoe shine
SERBRILL W-38	Carnauba	Hard	20±2	7,5±1,0	Whitish-yellowish fluid liquid.	Natural effect. Shoe shine
SERBRILL W-52	Synthetic-Ester	Medium	17±1	5,0±1,0	Whitish-yellowish fluid liquid.	Burning effect in vegetable leather
SERBRILL W-53	Paraffin base	Soft	20±2	8,5±0,5	White fluid liquid.	Grounding, Filling. Reduce sticking during ironing.
SERBRILL W-61	Soft wax and fats emulsion	Soft. Warm-waxy feel.	13±0,5	7,0±0,5	White viscous fluid liquid.	Warm silky feel. Special for napa garment.
SERBRILL W-63	Polyethylene	Very Hard. Cristal	17,5±1	9,0±1,0	Yellowish viscous fluid liquid.	Cristal article. Glazing. Shine
SERBRILL W-74	Paraffin	Soft	40±1	6,5±0,5	White fluid liquid.	Light pull-up. Timber. Grounding. Filling. Reduce sticking during ironing.

CAPAFIN PIGMENTS

General Properties

Water based pigment micro-dispersions.

All our Capafin Pigments are METAL FREE.

No casein containing.

Light-Clean colours.

Containing small quantities of charges.

Semi-transparent pigment. Fillers can be added in order to increase the opacity.

Light, heat, migration...fastness are excellent.

Product	Chemical composition	% A.M.	Film Hardness	Appearance	Color
WHITE W	Titanium Dioxide. Bluish ton	50±2	Cobertur high	Viscous liquid	White
WHITE NW	Titanium Dioxide. Neutral ton	40±2	Cobertur high	Viscous liquid	White
YELLOW WS	Organic-Inorganic mix	16±1	Cobertur high	Viscous liquid	Yellow
ORANGE W	Inorganic base	12±1	Cobertur medium	Viscous liquid	Orange
RED W	Metallized AZO	20±2	Cobertur low	Viscous liquid	Red
BOURDEAUX W	Metallized AZO	22±2	Cobertur low	Viscous liquid	Bourdeaux
OCHRE W	Iron Oxide	29±2	Cobertur high	Viscous liquid	Ochre
BROWN W	#N/A	#N/A	#N/A	#N/A	#N/A
BLUE W	#N/A	#N/A	#N/A	#N/A	#N/A
BLACK BN	#N/A	#N/A	#N/A	#N/A	#N/A
BLACK W	Carbon Black. Reddish ton	17±1	Cobertur high	Viscous liquid	Deep black

SERANIL ANILINES

General properties

Metal complex dyes in solvent means.

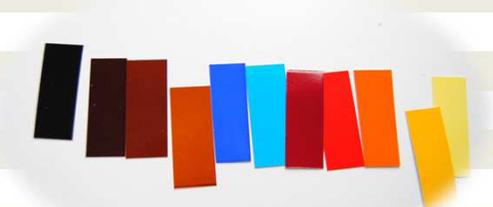
To be used mixed with pigment coats, aniline finishing, bi-colour contrast, tipping effects.

Are very suitable for lacquer colouring (solvent and water base).

They are water soluble when are mixed with polar solvents or special penetrators (see Dyes Auxiliaries).

Good penetration and tintorial efficiency.

According their chemical composition, SERANIL dyes fulfil with maximum requirements like light fastness, fixation, migration...

Product	Color	Appearance	General properties	
YELLOW CL	Light yellow	Fluid liquid.		
YELLOW N	Medium yellow	Fluid liquid.		
ORANGE N	Medium orange	Fluid liquid.		
RED CL	Light red	Fluid liquid.		
BURDEAUX N	Bluish red	Fluid liquid.		
BROWN CL	Light brown	Fluid liquid.		
BROWN N	Medium brown	Fluid liquid.		
BROWN FO	Dark brown	Fluid liquid.		
BLUE CL	Light blue	Fluid liquid.		
BLUE FO	Dark navy blue	Fluid liquid.		
BLACK N	Bluish black	Fluid liquid.		
BLACK TVA	Bluish black	Fluid liquid. Black		
TT Nº 1	Deep black ink with good penetration	Fluid liquid. Black		Dyeing / Recovery of old leather stock. Good penetration even in finished leathers. Natural drying is recommended to achive better and fixation.
PENTSER 04-S	Yellowish	Yellowish fluid liquid.		Special to improve Seranil dilution and penetration

DYING AUXILIARIES AND OTHERS

General properties

To improve dyeing penetration, fixation, equalization.

To improve anilines water solution.

To improve dust fixation.

To improve the softness in immersion dyeing.

Product	Properties	% A.M.	pH	Appearance	General properties
PENTSER 04-S	Special to improve Seranil dilution and penetration	100	6,0±0,5	Yellowish fluid liquid.	Special to improve Seranil dilution and penetration
PENTSER 08	Special for impregnation and anilines. Strong penetrator.	100	6,0±0,5	Colourless fluid liquid.	Special for impregnation and anilines. Strong penetrator.
DS-3701	Special to improve Seranil dilution and penetration	100	NA	Colourless fluid liquid.	Special to improve Seranil dilution and penetration
DISOLAC T	Special to improve Seranil dilution and penetration	100	NA	Colourless fluid liquid.	Special to improve Seranil dilution and penetration
BASE 1510	For all kind of leathers and other articles, plastics...	100	8,5±1,0	Whitish fluid liquid.	For all kind of leathers and other articles, plastics...
BASE 3012	Dust fixing in splits, nubuck, suedes.	100	8,5±1,0	Whitish fluid liquid.	Dust fixing in splits, nubuck, suedes.
IGUALADOR A-5	Color evennes - Improves the feel. Spray gun.	100	7,0±0,5	Whitish fluid liquid.	Color evennes - Improves the feel. Spray gun.
SERGRAS IM	Special for dyeing machine.	65±1	7,5±0,5	Yellowish fluid liquid.	Special for dyeing machine.

PLASTISER RA

Special fat having many of applications in multiply of sectors. Some of these product applications are: softening, soaking/humectation, degreasing, leveller, dispersing, emulsifier, foam modification, superficial tension agent, plasticizer, solubiliser...
 In the leather industry, like quality fatliquor , touching agent and dying levelling/intensification in de last fatliquoring stage and finishing.

75±1

7,5±0,5

Amber transparent liquid.

Color evennes - Improves the feel. Spray gun.

PLASTISER RS

Special fat having many of applications in multiply of sectors. Some of these product applications are: softening, soaking/humectation, degreasing, leveller, dispersing, emulsifier, foam modification, superficial tension agent, plasticizer, solubiliser...
 In the leather industry, like quality fatliquor , touching agent and dying levelling/intensification in de last fatliquoring stage and finishing.

75±1

7,0±0,5

Amber transparent liquid.

Color evennes - Improves the feel. Spray gun.