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## MINERAL

### General properties

Consolidate the fiber structure, and give 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
<b>SERTAN CO</b>	Synthetic-Chrome and proteins.	Solid in powder. Opalescent.	3,0±0,5 100 Cationic	Very good filling. Recommended for white leathers.
<b>SERTAN CH</b>	Synthetic-Chrome.	Solid in powder. Opalescent.	3,5±0,5 100 Cationic	Standard.
<b>SERTAN CHB</b>	Synthetic-Chrome and Vegetable Extract.	Solid in powder. Opalescent.	3,5±0,5 100 Cationic	Give some color to white leather.
<b>SERTAN CA</b>	Chrome-Aluminium.	Solid in powder. Opalescent.	2,5±0,5 100 Cationic	Combine the advantage of chromium and aluminium tanning. Leathers with very pale green color. Suitable for white leathers or very light colors.
<b>SERTAN AL</b>	Aluminium Tanning.	Solid in powder. Opalescent.	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 enables more intense dyeing and better buffing. It is also suitable for retanning those leathers that were pre-tanned with vegetable 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.

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
<b>SERTAN ALD</b>	Aldehyde.	Fluid liquid. Transparent.	6,0±1,0 45±2 Anionic	Used in pre-tanning for Wet-white and wet-blue operations, getting white color and very low oxidation. When used in wet-blue, permit to reduce the chrome content. Improve the physical resistance of leathers.
<b>SERTAN FAD</b>	Organic compound based aldehyde-phosphonic.	Fluid liquid. Transparent.	4,0±0,5 45±2 Anionic	Used in pre-tanning for wet-white and wet-blue operations, getting white color and very low oxidation. When used in wet-blue, permits to reduce the chrome content. Improve the physical resistance of leathers.
<b>SERTAN BK</b>	Syntan and vegetable polymer.	Solid in powder. Opalescent.	5,5±0,5 100 Anionic	Great filling and retanning power. It provides a high clair colour to the leather.
<b>SERTAN BX</b>	Syntan and vegetable polymer.	Solid in powder. Opalescent.	5,0±1,0 100 Anionic	Great filling and retanning power.
<b>SERTAN BSF</b>	Syntan and natural polymer.	Solid in powder. Opalescent.	5,0±0,5 100 Anionic	General dispersing agent for other retanning products, vegetable extracts, fatliquors or dyes. Better response to dying, improving the intensity and evenness of dyes. It can be used in pretanning wet-white.
<b>SERTAN BSP</b>	Syntan.	Solid in powder. Opalescent.	2,5±0,5 100 Anionic	General dispersing agent for other retanning products, vegetable extracts, fatliquors or dyes. Better response to dying, improving the intensity and evenness of dyes. It can be used in pretanning wet-white.
<b>SERTAN ELB-C</b>	White syntan.	Solid in powder. Opalescent.	2,5±0,5 100 Anionic	Whitening.

<b>SERTAN ELB-N</b>	White sytan.	Solid in powder. Opalescent.	3±0,5 100 Anionic	Whitening and retanning power.
<b>SERTAN CR-6</b>	Sytan and additives.	Solid in powder. Opalescent.	3,0±0,5 100 Anionic	Retanning. Cr6+ exhaustion and prevention.
<b>SERTAN RP</b>	Syntans, salts and additives.	Solid in powder. Opalescent.	3,0±0,5 100 Anionic	Vegetable extract dispersing and pre-tanning agent. It prepares the leather for fast penetration of vegetable extracts.

## VEGETABLE 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,  $\pm$  compact,  $\pm$  full or  $\pm$  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
<b>SERTAN VHM</b>	Vegetable extract.	Solid in powder. Opalescent.	4,5 $\pm$ 0,5 100 Anionic	Quebracho substitute.
<b>SERTAN VTM</b>	Vegetable extract.	Solid in powder. Opalescent.	4,5 $\pm$ 0,5 100 Anionic	Tara substitute. Light color. Good light resistance.
<b>SERTAN VXM</b>	Vegetable extract.	Solid in powder. Opalescent.	4,5 $\pm$ 0,5 100 Anionic	Chestnut substitute. Special extract for waterproofing articles.
<b>SERTAN VVM</b>	Vegetable extract.	Solid in powder. Opalescent.	4,5 $\pm$ 0,5 100 Anionic	Greenish color to vegetable tanned leather. Special extract for waterproofing articles.
<b>SERTAN VAM</b>	Vegetal extract.	Solid in powder. Opalescent.	4,5 $\pm$ 0,5 100 Anionic	Light reddish colour. Good tanning and filling effect. Good compactation.
<b>SERTAN VOM</b>	Vegetable extract.	Solid in powder. Opalescent.	4,0 $\pm$ 0,5 100 Anionic	Light yellowish color. Good tanning and filling effect. Good compactation.

## 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 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
<b>SERTAN RM</b>	Synthetic polymers and additives.	Fluid liquid. Transparent.	3,0±1,0 50±2 Anionic	Resin on acrylic base. Due to its acid pH, it is suitable for pre-tanning, tanning and retanning.
<b>SERTAN PA</b>	Synthetic polymers and additives.	Fluid liquid. Opalescent.	4,5±0,5 30±1 Anionic	Resin on acrylic base. Due to its acid pH, it is suitable for pre-tanning, tanning and re-tanning.
<b>SERTAN POL</b>	Synthetic polymers and additives.	Fluid liquid. Transparent.	9,0±0,5 33±1 Anionic	Resin on melamine base. Pre-tanning and tanning agent for all kind of leathers, specially for Wet-white, vegetable tanning and napa garments and shoes. Very good for tight grain.
<b>SERTAN RC</b>	Synthetic polymers and additives.	Fluid liquid. Transparent.	4,5±0,5 30±1 Anionic	General resin on acrylic base for retanning all kind of articles.
<b>SERTAN RR</b>	Synthetic polymers and additives.	Fluid liquid. Transparent.	5,5±0,5 28,5±1 Anionic	General resin on acrylic base for retanning all kind of articles.
<b>SERTAN RPC</b>	Synthetic polymers and additives.	Fluid liquid. Transparent.	8,0±1,0 20±1 Anionic	Resin on styrene-maleic base. Used in the final stages of the retanning process to improve the grain, fullness and smoothness. Very suitable for buffed articles and for dry, close and short plush. It increases 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
<b>SERTAN D-3</b>	Natural polymers and synthetic.	Solid in powder. Opalescent.	5,0±1,0 100 Anionic	Fixation and fibers compactation. White leathers.
<b>SERTAN DC</b>	Natural polymers and synthetic.	Solid in powder. Opalescent.	5,0±0,5 100 Anionic	High filling and fiber compactation.
<b>SERTAN DX</b>	Natural polymer.	Solid in powder. Opalescent.	5,0±1,0 100 Anionic	Excellent filling and fiber compactation.
<b>SERTAN F</b>	Natural polymer and mineral charges.	Solid in powder. Opalescent.	6,0±0,5 100 Anionic	Good filling.
<b>SERTAN FF</b>	Natural polymer and mineral charges.	Solid in powder. Opalescent.	7±0,5 100 Anionic	Economic Filler.
<b>SERTAN FP</b>	Natural polymer and mineral charges.	Solid in powder. Opalescent.	6,0±0,5 100 Anionic	Very good filling.
<b>SERTAN VEM</b>	Vegetable extract mixture and natural polymers.	Solid in powder. Opalescent.	4,5±0,5 100 Anionic	Retanning compact. In retanning process can be used as a quebracho substitute. Modified. Very good filling and good compaction. It's easy to penetrate in the leather so its good solubility.

<b>SERTAN VHI</b>	Vegetable extract and natural polymer.	Solid in powder. Opalescent.	4,5±0,5 100 Anionic	Retanning compact. In retanning process can be used as a quebracho substitute. Good filling and soft compactation.
<b>SERTAN VXI</b>	Vegetable extract and natural polymer.	Solid in powder. Opalescent.	4,5±0,5 100 Anionic	Retanning compact. In retanning and tanning process can be used as an extract chestnut substitute. High filling and compactation. Hardness. Special extract for waterproofing articles.
<b>SERTAN VTI</b>	Vegetable extract and natural polymer.	Solid in powder. Opalescent.	4,5±0,5 100 Anionic	Tara substitute. Light colour. Good light resistance.
<b>SERTAN VES</b>	Vegetable extract and natural polymer.	Solid in powder. Opalescent.	4,5±0,5 100 Anionic	Mimosa extract base. Excellent feeling. Economic.
<b>SERTAN RN-S</b>	Natural resin.	Fluid liquid. Opalescent.	7,5±1,0 35%±2 Anionic	Ideal product for the compaction of fibers. Improves the superficial touch of the skin.
<b>SERTAN RN-V</b>	Natural resin.	Fluid liquid. Opalescent.	5,0±1,0 45%±2 Anionic	Ideal product for the compaction of fibers. Improves the filling of the article.
<b>SERTAN RD</b>	Natural polymers.	Solid in powder. Opalescent.	6,5±0,5 100 Anionic	Filling, fixation and fiber compactation. White leathers.

## 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	A.M.	Product properties
<b>SERTAN N-N</b>	Alcaline salts and masking.	Solid in powder. Opalescent.	8,0±0,5 100 Anionic	Standard neutralizing and complex-forming agent and mild basifying agent.
<b>SERTAN N-PAK</b>	Alcaline salts and masking.	Solid in powder. Opalescent.	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.
<b>SERTAN N-AG</b>	Alcaline salts and masking.	Solid in powder. Opalescent.	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. Enhances the plush on suede articles. It increases the dye color shades and speeds up vegetable retanning.
<b>SERTAN ND</b>	Naphthalene syntan.	Solid in powder. Opalescent.	9,5±1,0 100 Anionic	Dispersing agent. It can be used like a neutralization agent in order to improve the penetration of retanning products, the vegetable extracts specially. In dyeing, thanks to his strong anionic character, it enables the levelling, dispersion and penetration of dyestuffs.

## AUXILIARY

### General properties

Auxiliary products for tanning, retanning and fatliquoring.

Product	Chemical composition	Appearance	pH A.M. Charge	Product properties
<b>SECCUSS FE</b>	Organic and inorganic salts.	Solid in powder. Opalescent.	2,5±0,5 100 Anionic	Iron complexing. To avoid/remove iron mask.
<b>SECCUSS SOFT-FL</b>	Organic and inorganic salts.	Fluid liquid. Transparent.	8,0±0,5 30% Anionic	The product has a great sequestering power in front of salts and hydroxides, alkaline earth metals and heavy metals, with which they form soluble and very stable compounds, thus neutralizing the harmful effects and interferences in the processes of tanning, recouping and dyeing. The sequestrant's efficiency will vary somewhat depending on the components present in the treatment bath,
<b>SERFIX MF-5</b>	Organic and inorganic salts with natural polymers.	Solid in powder. Opalescent.	2,0±0,3 100 Anionic	Fixing and witting effect of vegetable extracts.
<b>SERFIX AF</b>	Organic and inorganic salts.	Solid in powder. Opalescent.	1,5±0,5 100	Substitute for formic acid. Serfix AF requires not special transport neither special storage.
<b>TRD-CP</b>	Surfactans, water and additives.	Viscous liquid. Opalescent.	6,0±1,0 16±1 Non-ionic	Antifoam for multiple uses and products.
<b>ANTIESPUMANTE A-280</b>	Synthetic olis, surfactants and additives.	Fluid liquid. Opalescent.	6,5±1,0 100 Non-ionic	Antifoam for multiple uses and products.