

# K-SOFT AR

K-SOFT AR is an auxiliary syntan intended for neutralisation and mild retannage of chrome tanned leathers.

## TYPICAL ANALYSIS

Appearance	Light brown powder
Solids	> 92 %
pH (10 % solution)	7.0±1.0

## PROPERTIES

K-SOFT AR is a spray-dried powder which is readily soluble in water. It has low astringency and possess strong dispersing action. These properties are of great value in the neutralising and retanning of chrome leather.

On grain leather the mild action of K-SOFT AR results in a smoother, tighter grain whilst on suedes it gives a fine, tight nap.

K-SOFT AR is also recommended for use in combination with other retanning agents such as vegetable extracts and resins.

## APPLICATION

The amounts to be used are generally 1.0÷3.0 % based on shaved weight. These amounts can be adjusted depending on the desired result.

When correctly stored, it is stable 36 months.

This sheet is a synthetic illustration of the product to enable the user to employ it at the best.

Properties and values are not, therefore, sales specifications.

Taking into account the several possibilities of application of this product, no warranty of the results is possible.

Expiry date refers to the product well closed in the original container, in fresh and dry area. Some particularly sensitive products, when open, should be used rapidly.

**Stir well before using the product, close tightly the container to preserve the properties.**

Our technical service is at your disposal for any recommendation.

# K-SOFT FD LIQ

K-SOFT FD LIQ is a fixing agent which greatly improves the wet fastness properties of many acid and direct dyes i.e. to perspiration, water and washing.

## TYPICAL ANALYSIS

Chemical constitution	Cationic nitrogenous condensate
Appearance	Colourless liquid
Solids content	25 ± 3 %
pH (10 g/l)	3÷5
Solubility	Readily soluble in water

## PROPERTIES

K-SOFT FD LIQ enables a far greater number of dyes to be used to meet wet fastness requirements particularly for shoes, where full penetration is required, and also for clothing and gloving leathers. It does not have an adverse effect on the handle of the leather produced or significantly affect the shade of dyeing of retanned leathers.

K-SOFT FD LIQ does not adversely affect the lightfastness or rubbing properties of leathers dyed with acid or direct dyes.

K-SOFT FD LIQ produces a shade deepening effect on combination or vegetable tanned leathers where dye affinity is poor.

## APPLICATION

The died leathers are thoroughly rinsed to remove any residual unfixed dye and then after-treated in a fresh bath containing K-SOFT FD LIQ, e.g.:

Retanned side:	0.5 ÷ 2.0 %	on shaved weight	run 30'
Suede split:	1.0 ÷ 4.0 %	on shaved weight	run 30'

When correctly stored, it is stable 12 months.

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# K-SOFT GA

K-SOFT GA is an auxiliary syntan intended for neutralization and mild retannage of chrome tanned leathers.

## TYPICAL ANALYSIS

Appearance	Light brown powder
Solids	>92 %
pH (10 % solution)	7.0 ± 1.0

## PROPERTIES

K-SOFT GA is a spray-dried powder which is readily soluble in water. It has low astringency and possesses high buffered neutralizing properties, strong dispersing action and mild retanning effect.

On grain leather the mild action of K-SOFT GA results in a smoother, tighter grain whilst on suede it gives a fine, tight nap.

The chemical nature of K-SOFT GA does not affect the dye intensity.

K-SOFT GA is particularly recommended for use during retannage in conjunction with other retanning agents such as syntans, vegetable extracts and resins.

## APPLICATION

From 1.0 to 4.0 % in neutralization for all the articles.

From 4.0 to 10.0 % in retannage of goat for suede crust.

From 2.0 to 4.0 % in retannage for fluffy/spongy effect requirement.

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# K-SOFT MA

K-SOFT MA is a masking agent.

## TYPICAL ANALYSIS

Appearance	White powder
Solids content	> 92 %
pH (10 % solution)	6.5-8.5
Water solubility	Soluble

## PROPERTIES

This product gives rise to chemical aggregates with basic chromium salts, modifying their affinity toward collagen.

So it produces a better exhaustion of chrome floats and a more even distribution of the tanning agent as well. This will result in diminished risk of chromium spots on leather.

The resulting wet-blue is clear and uniform, full, with tight and fine grain.

More level dyeing is obtained, due to the reduced affinity with acid and direct dyes.

## APPLICATION

It is recommended to use from 0.5 to 1.0 % based on pelt weight. The product is used together with the chrome tanning agent.

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# K-SOFT MBA

K-SOFT MBA is an auxiliary product based on a balanced blend of basifying and masking agents.

## TYPICAL ANALYSIS

Appearance	Off white powder
Solids content	> 92 %
Water solubility	Scarcely soluble

## PROPERTIES

This product has been developed to perform high efficiency during the basification step for mineral tannage.

The employment of K-SOFT MBA ensure a high fixation of tannage through all the leather section, with a pronounced fullness, still maintaining a particularly fine surface grain without any overtannage.

## APPLICATION

K-SOFT MBA is directly applied undissolved after the penetration of mineral tannage in 0.8 to 1.2 % amount, then let run for almost 6 - 7 hours.

When correctly stored, it is stable 36 months.

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# K-SOFT MG

Self-basifying agent for chrome tanning in powder form.

## TYPICAL ANALYSIS

Chemical composition	Magnesium oxide based agent
Appearance	Off white powder
Solids content	> 92 %
pH (suspended in water)	9.5÷11.5
Water solubility	Low

## PROPERTIES

K-SOFT MG is a mild alkalinizing powder agent with small size, low surface area particles, which are uniformly but scarcely soluble in acidic solutions.

Such features make the product extraordinarily suitable as self-basifying agent for chrome tanning. Added to chrome baths, it gives a gradual increase in pH, which can be controlled by controlling the offer.

The main advantages in using this product are:

1. Gradual increase of pH without rapid jumps like other agent do (*i.e.* calcium carbonate): the result is an even distribution of chrome in leather and smooth grain.
2. The controlled, fine particle size eliminates the risk of abrasion of the pelt.
3. Magnesium oxide reacts with sulphuric acid to give only soluble salts, unless the salts obtained with calcium based agents, so the risk of stains on leather is eliminated.

## APPLICATION

It is possible to use K-SOFT MG together with chrome or shortly after, generally in 0.3÷0.5 % offer.

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# K-SOFT PP

K-SOFT PP is a blend of organic and inorganic fillers.

## TYPICAL ANALYSIS

Appearance	off-white powder
Total solids	> 92 %
pH (1:10 water dispersion)	4.5÷6.5

## PROPERTIES

K-SOFT PP disperses readily in water to produce a cloudy suspension. K-SOFT PP is recommended for use in the retannage of chrome, vegetable and combination tanned leathers and imparts excellent fullness and tightness.

K-SOFT PP penetrates into the leather and is deposited within the fibre structure, particularly in the looser areas. By virtue of its mode of action, the use of K-SOFT PP in retannage complements the action of syntans and resins and offers the following advantages:

1. Preferential filling of bellies and flanks leading to a more uniform handle and substance across the side of skin.
2. Improved buffering characteristics on suede and corrected grain leathers.
3. It doesn't deeply affect the dye yield.

## APPLICATION

K-SOFT PP is generally applied just before the main fatliquor or alternatively it can be added into the retannage bath.

An offer of 2.0÷4.0 % (based on shaved weight) fulfils most requirements.

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# K-SOFT RNX

K-SOFT RNX is a powder tanning material, based on aromatic sulphonic acids and chrome tanning agent.

## TYPICAL ANALYSIS

Solids	> 92 %
Chrome oxide (Cr <sub>2</sub> O <sub>3</sub> )	12.5 ± 1.0 %
pH (10 % solution)	3.8±1.0

## PROPERTIES

K-SOFT RNX, when used alone, gives a light-coloured, soft leather. However, in general, it is used in the retannage and pretannage of chrome leather of all types. K-SOFT RNX does not materially affect the affinity of the substrate for anionic dyes. This property is of particular value in the production of suede leathers where full shades are required.

K-SOFT RNX produces grain leathers with a particularly fine, smooth patent and is recommended for the production of full grain lightfast aniline sides, calf, sheep etc. K-SOFT RNX gives good fullness and softness in the tanning or retanning of woolskins and provides a bright-white wool.

## APPLICATION

From 1.0 to 5.0 % for all skins and leathers.

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# K-SOFT RNX/EG

K-SOFT RNX/EG is a powder tanning material, based on aromatic sulphonic acids and chrome tanning agent.

## TYPICAL ANALYSIS

Solids	> 92 %
Chrome oxide (Cr <sub>2</sub> O <sub>3</sub> )	7÷9 %
pH (10 % solution)	3.5±1.0

## PROPERTIES

K-SOFT RNX/EG, when used alone, gives a light-coloured, soft leather. However, in general, it is used in the retannage and pretannage of chrome leather of all types. K-SOFT RNX/EG does not materially affect the affinity of the substrate for anionic dyes. This property is of particular value in the production of suede leathers where full shades are required.

K-SOFT RNX/EG produces grain leathers with a particularly fine, smooth patent and is recommended for the production of full grain lightfast aniline sides, calf, sheep etc. K-SOFT RNX/EG gives good fullness and softness in the tanning or retanning of woolskins and provides a bright-white wool.

## APPLICATION

From 1.0 to 5.0 % for all skins and leathers.

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# K-SOFT ST

K-SOFT ST is a medium chain phosphate derivative.

## TYPICAL ANALYSIS

Appearance	White powder
pH (1% water solution)	9.5±1.0
Active substance	> 92 %
Water solubility	Soluble

## PROPERTIES

K-SOFT ST improves lime solubility and has a chelating action toward iron ions.

Due to its chemical characteristics the application of K-SOFT ST during liming and deliming enables the efficiency of the entire system avoiding troubles of lime penetration and preventing lime blast.

This product is also an auxiliary to improve the penetration of products used in the tanning industry such as dyestuffs.

## APPLICATION

The amounts depend on the specific application and range:

- Liming	0.2 ÷ 1.0 %
- Deliming	0.5 ÷ 1.0 %
- Masking/neutralising	0.5 ÷ 2.0 %
- Dyeing/retanning	0.5 ÷ 2.0 %

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# K-SOFT W

K-SOFT W is an auxiliary syntan in powder form, based on naphthalenesulphonic acid.

## TYPICAL ANALYSIS

Appearance	Light brown powder
Solid content	> 92 %
pH (10 % solution)	6.0±1.0

## PROPERTIES

K-SOFT W is suitable for all kinds of leather. Its application decreases the affinity of anionic dyestuffs for chrome tanned leather, resulting in a more rapid penetration with a better distribution of dyes.

This product can be added directly together with anionic dyestuffs.

Lightfastness is not high but enough for pastel shades production.

K-SOFT W has a good dispersing action, particularly suitable when used with natural extracts and resins.

## APPLICATION

Typically an amount of 1.0÷3.0 %, based on shaved weight, is enough.

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