

# K-DOL 12

K-DOL 12 is a fatliquor based on sulphited fish oil.

## TYPICAL ANALYSIS

Appearance	Reddish brown liquid
pH (10% emulsion)	7.0±1.0
Active substance	55±3 %
Electrolytes stability	very good
Lightfastness	good

## PROPERTIES

K-DOL 12 is based on a sulphited fish oil which gives a low smell to the final product. Easily pourable in water, it produces a semi-transparent emulsion, very stable to chrome and electrolytes.

K-DOL 12 gives the leather a full hand, soft and round.

It may be used alone or in combination with other products.

## APPLICATION

Amounts to be used range from 1 to 5 % depending on the desired article.

When correctly stored, it is stable 12 months.

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# K-DOL 123

K-DOL 123 is a self-emulsifying natural fatliquor.

## TYPICAL ANALYSIS

Appearance	yellow liquid
pH (10 % emulsion)	6±1
Active substance	99±1 %
Acid stability	very good
Electrolyte stability	very good
Lightfastness	very good

## PROPERTIES

K-DOL 123 was specifically developed to obtain soft leathers, low density, relatively dry hand character, and a low fat content. It has considerable electrolyte stability.

The very good light fastness of K-DOL 123 makes it particularly suitable for white and pastel shades.

K-DOL 123 can also be used as a finishing auxiliary in mixtures of oils for greased articles.

## APPLICATION

Recommended amounts are depending on the item to obtain.

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# K-DOL 123/SM

K-DOL 123/SM is a general-purpose crude oil.

## TYPICAL ANALYSIS

Appearance	Straw yellow liquid
Composition	Synthetic oils
Ionic character	Non ionic
Active substance	99±1 %
Light fastness	Very good

## PROPERTIES

K-DOL 123/SM can be used in all fatliquor formulations for bovine, nappa and shoe leather. It improves the fullness while lubricating and preserving the grain from cracking.

The product applied in the final top treatment ensures a deep reactivity to glossy finishing and it does not affect the finishing adhesion, like the majority of cationic liquors do.

## APPLICATION

Due to the high fat content, we would recommend the amount range from 0.5 to 1.5 %, depending on the emulsifying power of the formulation used.

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# K-DOL 32

K-DOL 32 is a fatliquor based on sulphited natural oil.

## TYPICAL ANALYSIS

Appearance	Yellow orange oil
Active content	68 ± 3 %
pH (10 % solution)	5.5÷7.5
Charge	Anionic
Lightfastness	Good
Stability to tanning floats	Good
Stability to electrolytes	Good

## PROPERTIES

K-DOL 32 is suitable in formulation and may be used alone or in combination with other fatliquors.

K-DOL 32 gets the leathers particularly soft.

## APPLICATION

Amounts typically range from 2 to 10 %, according to the item.

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# K-DOL 42

K-DOL 42 is an anionic fatliquor based on lecithin.

## TYPICAL ANALYSIS

pH (emulsion 10 %)	7.5 ± 1.0
Chemical character	phospholipids and synthetic softeners
Active substance	45 ± 3 %
Appearance	Medium brown viscous liquid
Acids stability	Good
Salts stability	Good
Chromium stability	Not recommended in chrome floats
Lightfastness	Good

## PROPERTIES

K-DOL 42 gives outstanding softness and fullness to every kinds of leathers imparting an exceptionally full and smooth hand: when used on suedes produces a soft and silky hand and a noticeable brightness as well.

K-DOL 42 may be used alone or as touch modifier in combination with sulphited fatliquors and phosphoric esters, when particularly light crusts are desired.

## APPLICATION

From 5 to 10 % on shaved weight for most applications.

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# K-DOL 98

K-DOL 98 is a synthetic fatliquor suitable for the production of extremely soft leathers. The resulting leathers have a cloth-like, soft touch.

## TYPICAL ANALYSIS

Appearance	yellow-brown liquid
Active substance	50 ± 3 %
Chemical composition	synthetic oils
pH (10 % emulsion)	7.5 ± 1.0
Stability	Good
Lightfastness	Good

## PROPERTIES

K-DOL 98 gives the leather a soft hand, like a cloth, without loosening the grain.

It is applicable on a variety of leathers, gives very good softness and uniform grain throughout the whole leather.

## APPLICATION

A range of 6.0÷10.0 % is suitable for most articles.

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# K-DOL BK

K-DOL BK is a special blend of natural oils and tallow suitable for the drum stuffing of full vegetable articles.

## TYPICAL ANALYSIS

Appearance	brown paste
Active content	78 ± 3 %
Chemical composition	natural sulphited oils and triglycerides
pH (10 % solution)	6÷8

## PROPERTIES

K-DOL BK is the typical liquor for the Italian classic “vacchetta” article. The application of this product normally follows a drum-stuffing method on sammed leathers in drums without float and heating devices. K-DOL BK imparts to the final crust a particular fullness and brush reactivity, as well as a particular natural gloss that only “vacchetta” article has. K-DOL BK increases greatly the resistance of the leather to sewing.

## APPLICATION

The recommended amounts can vary from case to case, depending on the hides to be treated and the final items required. The normal amount is from 6.0 to 12.0 % on sammed weight.

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# K-DOL BZN

K-DOL BZN is a fatty emulsion based on synthetic and natural (lanolin) oils.

## TYPICAL ANALYSIS

Appearance	Yellowish brown fluid paste
Active content	50 ± 3 %
Composition	Mixture of natural and synthetic oils
Ionic character	Anionic
pH (10 % solution)	7.0 ± 1.0
Lightfastness	Good
Resistance to electrolytes	Moderate

## PROPERTIES

K-DOL BZN is suitable as a combination fatliquor wherever it is required a particular waxy-warm feel. K-DOL BZN imparts good fullness and reactivity to brush thus obtaining a filled-fine patented grain. The product could be applied in all the different articles and leathers but could be considered a classical ground for “burnish effect” and “vacchetta” productions.

## APPLICATION

Percentages of application depend on the effect required: we would recommend from 1.0 to 6.0 %.

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# K-DOL C

K-DOL C is a sulphited fatliquor.

## TYPICAL ANALYSIS

Appearance	Red brown fluid
pH (10% solution)	5,5-7,5
Active content	73 ± 3 %
Stability to electrolytes	Very good
Lightfastness	Good

## PROPERTIES

K-DOL C is a sulphited fish oil which imparts a faint odor to the final product. It is easily dispersible in water and it produces an emulsion semitransparent, very stable to chrome and electrolytes.

K-DOL C gives leather a full, soft and round grain.

It can be used alone or in combination with others products.

## APPLICATION

From 1 to 5 %, depends on desired article.

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# K-DOL CV

K-DOL CV is a general-purpose neatfood oil.

## TYPICAL ANALYSIS

Appearance	Straw yellow liquid
Ionic character	Non ionic
Active substance	99±1 %
Light fastness	Very good

## PROPERTIES

K-DOL CV is used in all fatliquor formulations for bovine, nappa and shoe leather. It improves the fullness while lubricating and preserving the grain from cracking.

The product applied in the final top treatment ensures a deep reactivity to glossy finishing and it does not affect the finishing adhesion, like the majority of cationic liquors do.

## APPLICATION

Due to the high fat content, we would recommend the amount range from 0.5 to 1.5 %, depending on the emulsifying power of the formulation used.

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# K-DOL EF

K-DOL EF is a lightfast synthetic fatliquor based on a phosphoric ester in a particular formulation.

## TYPICAL ANALYSIS

Appearance	Yellowish liquid
Composition:	Synthetic emulsified oils
Active substance	40 ± 3 %
pH (10 % solution)	6.0 ÷ 9.0
Light fastness	Excellent

## PROPERTIES

K-DOL EF is a synthetic fatliquor recommended for all soft leathers which gives leathers with a deep inner softness and a cloth-like handle, associated with a lightweight character.

K-DOL EF deeply penetrates and helps obtaining full and level dyeings. Moreover, being a non-yellowing fatliquor, it can be used in cases where the lightfastness is important.

## APPLICATION

The amounts to be used range from 2-3 % to 6-8 %, alone or in combination with other fatliquors, depending on the desired item.

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# K-DOL EF-PR

K-DOL EF-PR is a lightfast synthetic fatliquor.

## TYPICAL ANALYSIS

Appearance	Yellowish liquid
Composition	Synthetic emulsified oils and proteins
Active substance	50 ± 3 %
pH (10 % solution)	7.5 ± 1.0
Light fastness	Excellent

## PROPERTIES

K-DOL EF-PR is a non-yellowing synthetic fatliquor which gives leathers with a deep inner softness and a cloth-like handle, and a lightweight character too, recommended for all soft leathers.

K-DOL EF-PR deeply penetrates and helps obtaining full and level dyeings.

## APPLICATION

The amounts to be used range from 2-3 % to 6-8 %, alone or in combination with other fatliquors, depending on the desired item.

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# K-DOL EP

Synthetic phosphoric ester based oil.

## TYPICAL ANALYSIS

Appearance	Yellowish coloured oil
pH (sol. 10%)	$7.5 \pm 1.0$
Active substance	$50 \pm 3 \%$
Charge	Anionic
Electrolyte stability	Excellent

## PROPERTIES

Being a phosphoric ester based oil, K-DOL EP forms a stable emulsion with water at any pH range. With its excellent penetration power it will fix completely to the leathers fibres. K-DOL EP improves the fatliquor distribution, making it uniform also for other fatliquors. It is compatible with every kind of tanning product and/or fatliquors.

K-DOL EP is not oxidizable and works as an antistatic agent. Leathers treated with K-DOL EP show a good softness, fullness, with a pleasant handle, never greasy.

## APPLICATION

It can be used in a large range of pH (1,5-9).

Suggested amounts range from 3÷10 %, alone or in combination with other fatliquors.

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# K-DOL ESL

Synthetic phosphoric ester based oil.

## TYPICAL ANALYSIS

Appearance	Orange brown coloured fluid paste
pH (sol. 10%)	6-8
Active substance	55 ± 3 %
Charge	Anionic
Electolyte stability	Excellent

## PROPERTIES

K-DOL ESL forms a stable emulsion with water at any pH range and can be used in a wide range of pH (1,5-9). It has excellent penetration power and fix completely to the leathers fibres.

K-DOL ESL improves the fatliquor distribution, making it uniform. Leathers treated with K-DOL ESL show a good softness, fullness, with a pleasant handle.

## APPLICATION

Suggested amounts range from 3÷10 %, alone or in combination with other fatliquors.

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# K-DOL ID

K-DOL ID is a sulphited degreas blended fatliquor.

## TYPICAL ANALYSIS

Appearance	Viscous dark brown liquid
pH (10 % emulsion)	6.5÷8.5
Active content	50 ± 3 %
Acid stability	Very good
Electrolyte stability	Very good
Light fastness	Moderate

## PROPERTIES

K-DOL ID is manufactured specifically to meet the requirements of customers who require maximum softness at minimum cost. It can be used for most types of leathers in grain and suede. However its degreas content may impart a yellowish cast to chrome leather, therefore it is not recommended for white leathers.

This product gives a slightly waxy hand.

## APPLICATION

From 2 to 8 % for most applications.

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# K-DOL K70

K-DOL K70 is a fatliquor based on synthetic and natural oils.

## TYPICAL ANALYSIS

Appearance	Yellow to light brown liquid
pH (sol. 10%)	$6.5 \pm 1$
Active substance	$35 \pm 3 \%$
Electrolytes stability	good
Lightfastness	good

## PROPERTIES

K-DOL K70 is recommended for fatliquoring garment and upholstery leather: it penetrates deeply into the leather and gives a very soft, light weight and full handle.

K-DOL K70 can be used as sole fatliquor, but also in combination with other fatliquors.

The resulting leather has high tear and tensile strength. Dye shades are level and full.

## APPLICATION

Amounts to be used range from 5 to 15 % depending on the desired article.

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# K-DOL LE/01

K-DOL LE/01 is an anionic fatliquor based on natural and synthetic oils.

## TYPICAL ANALYSIS

Appearance	Red brown fluid
Active content	95 ± 3 %
pH (10 % solution)	6.5÷8.5
Lightfastness	Good

## PROPERTIES

K-DOL LE/01 imparts every kind of leather considerable softness and fullness, giving an exceptionally smooth and full grain.

K-DOL LE/01 can be used alone or as touch modifier in combination with anionic fatliquor and to get particularly light crusts.

## APPLICATION

From 5 to 10 % on the shaved weight for most applications.

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# K-DOL LR606

K-DOL LR606 is a carefully formulated acrylic retanning agent.

## TYPICAL ANALYSIS

Appearance	opaque viscous light brown liquid
Solids content	$30 \pm 2$ %
pH (10 % solution)	$5.5 \pm 1.0$
Lightfastness	good
Charge	anionic

## PROPERTIES

K-DOL LR606 is based on a soft acrylic polymer which gives the leather very good fullness without changing the dyeing behaviour.

It can be used in neutralizing or in retanning; the resulting leather are typically “gummy”.

K-DOL LR606 can also be used for milled articles and for upholstery leather, instead of syntans or vegetable retanning agents.

## APPLICATION

It is used in retanning or neutralization, from 2.0 to 6.0 %, depending on the particular requirements.

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# K-DOL LTK/N

Fatliquor based on synthetic and natural oil.

## TYPICAL ANALYSIS

Appearance	Off white fluid paste
pH (sol. 10%)	6.5 ÷ 8.5
Active content	40 ± 3 %
Light fastness	Good

## PROPERTIES

K-DOL LTK/N gives a stable and fine emulsion, suitable for a uniform distribution through leather's section.

Its fatliquoring properties are well balanced and give the leathers a good softness, fullness and a fluid hand.

The grain results sufficiently elastic without compromising its firmness and its adhesion.

K-DOL LTK/N is particularly suitable as primary fatliquoring for every kind of leather such as nappa for shoes, bags, furnishing and dresses.

## APPLICATION

From 2 to 10 % in most applications.

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# K-DOL MAL

K-DOL MAL is an anionic fatliquor based on sulphated synthetic and natural oils.

## TYPICAL ANALYSIS

pH (10 % emulsion)	6.0÷8.0
Chemical character	sulphated oils with phospholipids and synthetic softening agents
Active content	85 ± 3 %
Appearance	Viscous mid-brown liquid
Acid stability	Good
Salt stability	Good
Chrome stability	Not recommended in chrome bath
Light fastness	Good

## PROPERTIES

K-DOL MAL imparts outstanding softness and fullness to all types of leathers giving an exceptionally smooth, well-nourished handle.

K-DOL MAL when used on suede leathers produces a soft silky handle together with outstanding lustre.

K-DOL MAL can be used alone or as a handle modifier in conjunction with other anionic fatliquors.

## APPLICATION

From 5 to 10 % based on shaved weight in most applications.

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# K-DOL NFI

K-DOL NFI is a highly sulphited fish based fatliquor

## TYPICAL ANALYSIS

pH (10 % emulsion)	6.0÷8.0
Active content	47-53 %
Appearance	Pourable yellow brown liquid
Acid stability	Very good
Electrolyte stability	Very good
Chromium salts stability	Very good
Light fastness	Very good

## PROPERTIES

K-DOL NFI is a general purpose fatliquor, giving very soft leathers with warm hand, similar to that obtainable with fish based fatliquors. Moreover K-DOL NFI has the advantage of giving odourless leathers non-yellowing during the times. These properties make K-DOL NFI the ideal product for both upholstery and garment leather. Being very lightfast, K-DOL NFI is ideal for the production of white and pastel shades. Its stability to electrolytes, etc., makes K-DOL NFI particularly suitable to the addition to chrome floats for tanning and retanning, to neutralisation floats and to retanning floats when using natural and synthetic tannins, in order to produce a softer leather than obtainable by the final addition of the product. The resulting leather has a very soft, slightly waxy hand character.

## APPLICATION

The suggested amount are from 4 to 6 % for shoes; from 10 to 20 % for garment or upholstery; from 1 to 3 % in retanning/neutralization.

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# K-DOL NS EC2

K-DOL NS EC2 is a low smelling sulphited fish based fatliquor.

## TYPICAL ANALYSIS

pH (10 % emulsion)	6.5÷8.5
Active content	47 ± 3 %
Appearance	Pourable brown liquid
Acids, Electrolytes, Chrome stability	Good
Light fastness	Moderate

## PROPERTIES

K-DOL NS EC2 produces leathers which are very soft and having a warm handle.

The stability of K-DOL NS EC2 to electrolytes makes it an ideal fatliquor to add to chrome tanning/chrome retanning, neutralising or retanning baths, to produce a softer, mellower leather than if all the fatliquor is added together at the end of the process.

K-DOL NS EC2 is a highly penetrating fatliquor and consequently is ideal for the production of upholstery and also clothing leather.

Its handle character is very soft, well nourished.

## APPLICATION

For upholstery leather, 10-16 %.

For shoe leather, 2-4 %, in combination with other fatliquors.

For tanning, retanning, neutralising, 0.5-1.0 %.

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# K-DOL NSV

K-DOL NSV is a sulphited vegetable based fatliquor.

## TYPICAL ANALYSIS

pH (10 % emulsion)	6.5÷8.5
Active content	40 ± 3 %
Appearance	Limpid orange brown oil
Acid stability	Good
Electrolyte stability	Moderate
Lightfastness	Moderate

## PROPERTIES

K-DOL NSV is manufactured specifically to meet the requirements of customers that ask for the maximum softness at minimum cost. It can be used for most types of leathers in grain and suede.

K-DOL NSV imparts to the final crust a pleasant silky-warm touch.

However, its natural content may impart a yellowish cast to chrome leather, therefore it is not recommended for white or pastel shades production.

## APPLICATION

From 2.0 to 10.0 % in all the articles.

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# K-DOL OVE

K-DOL OVE is based on synthetic oils.

## TYPICAL ANALYSIS

Appearance	Limpid colourless liquid
Chemical composition	Mixture of synthetic oils
Active substance	99±1 %
Water solubility	insoluble

## PROPERTIES

K-DOL OVE is a formulation of synthetic oils particularly studied to be used, in combination with emulsifying oils, in full grain or suede leather. It acts as a lubricant giving oiled fibres with a typical greasy hand.

## APPLICATION

In combination with other oils, in variable amounts depending from the items to be obtained (typically 1.0 ÷ 2.0 %).

When correctly stored, it is stable 12 months.

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# K-DOL Q LIQ

Fatliquor based on synthetic oils.

## TYPICAL ANALYSIS

Appearance	Creamy paste
pH (sol. 10%)	6.0-8.0
Active content	31 ± 3 %
Light fastness	Good

## PROPERTIES

K-DOL Q gives a stable and fine emulsion, suitable for a uniform distribution through leather's section.

Its fatliquoring properties are well balanced and give the leathers a good softness, fullness and a fluid hand.

The grain results sufficiently elastic without compromising its firmness and its adhesion.

K-DOL Q is particularly suitable as primary fatliquoring for every kind of leather such as nappa for shoes, bags, furnishing and dresses.

## APPLICATION

From 2 to 8 % in most applications.

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# K-DOL RA

K-DOL RA is a self-emulsifying natural fatliquor.

## TYPICAL ANALYSIS

Appearance	yellow liquid
pH (10 % emulsion)	$6.5 \pm 1.5$
Active substance	$99 \pm 1 \%$
Acid stability	very good
Electrolyte stability	very good
Lightfastness	very good

## PROPERTIES

K-DOL RA was specifically developed to obtain soft leathers, low density, relatively dry hand character, and a low fat content. It has considerable electrolyte stability.

The very good light fastness of K-DOL RA makes it particularly suitable for white and pastel shades.

K-DOL RA can also be used as a finishing auxiliary in mixtures of oils for greased articles.

## APPLICATION

Recommended amounts are depending on the item to obtain.

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# K-DOL S 70

K-DOL S 70 is a general purpose fatliquor, which can be used alone or in combination with other oils.

## TYPICAL ANALYSIS

Appearance	Yellow brown liquid
Composition:	Mixture of sulphated triglycerides and synthetic oils
Active content	$50 \pm 3 \%$
pH (10 % solution)	$7.0 \pm 1.0$
Ionic character	Anionic
Light fastness	Good

## PROPERTIES

K-DOL S 70 is suitable for all kind of leather and particularly, in combination with other fatliquors, for upper leather, giving full hand and tight grain.

## APPLICATION

Depending on the item to prepare, the amount to be used can vary from 2 to 4%.

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# K-DOL S

K-DOL S is a particular combination of fatty materials and natural waxes with noticeable emulsifying power.

## TYPICAL ANALYSIS

Appearance	off white liquid
Ionic character	anionic
Active content	30 ± 3 %
pH(10 % solution)	7.5-9.5
Stability to electrolytes	Stable to electrolytes normally used in tannery

## PROPERTIES

K-DOL S, thanks to its particular chemical constitution, can be used as emulsifier for crude oils, with very efficient action.

## APPLICATION

Requested amounts change according to the skin and article to be obtained.

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# K-DOL SW

K-DOL SW is a synthetic fatliquor suitable for the production of extremely soft leathers.

## TYPICAL ANALYSIS

Appearance	light yellow liquid
Active matter:	$50 \pm 3 \%$
Chemical composition	synthetic oils
pH (10 % emulsion)	6.5÷8.5
Stability	Good
Lightfastness	Good

## PROPERTIES

The leathers fatliquored with K-DOL SW have a notably clothlike, fluffy feeling, without any looseness of the grain.

It is suitable for a wide range of leathers, gives very good fulness and an even and uniform millbreak in all parts of leather.

## APPLICATION

The required amount is normally 6.0÷10.0 % for most articles.

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# K-DOL TR/AS

K-DOL TR/AS is a synthetic fatliquor suitable for the production of extremely soft leathers.

## TYPICAL ANALYSIS

Appearance	yellowish transparent liquid
Active substance	47 ± 3 %
Chemical composition	synthetic oils
pH (10 % emulsion)	6.5÷8.5
Stability	Good
Lightfastness	Good

## PROPERTIES

K-DOL TR/AS produces a very soft leather giving a soft hand, like a cloth, without loosening the grain.

It is applicable on a variety of leathers, gives very good softness and uniform grain throughout the whole leather.

## APPLICATION

A range of 6.0÷10.0 % is suitable for most articles.

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# K-DOL TRS

K-DOL TRS is a weak cationic tear-resistance auxiliary.

## TYPICAL ANALYSIS

Appearance	white paste
Chemical composition	blend of natural and synthetic oils with selected cationic additives
Ionic character	weakly cationic
pH (10 % solution)	4.0±1
Active substance	14±2 %
Lightfastness	very good

## PROPERTIES

K-DOL TRS's particular formulation helps replacing in the leather the partially destroyed elastine bridges, improving tear resistance of the final dry crust. K-DOL TRS is able to improve very weak materials such as U.K. domestic or other sheep w.b. when applied during neutralisation.

Due to its stability, K-DOL TRS can be applied during chrome, aluminium, zirconium tannage or retannage. Used as a cationic-touch auxiliary, its weak cationic charge will never create troubles of precipitations and surface overloading which cause finishing adhesion problems, overall imparting a pleasant silky touch in grain and particular brilliance in suede articles.

## APPLICATION

From 1.0 to 3.0 % in metals retannage.

From 3.0 to 4.0 % in neutralization as a tear resistance agent.

From 1.0 to 3.0 % like cationic touch-modifier.

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# K-DOL VP/6

K-DOL VP/6 is the typical liquor for the Italian classic “vacchetta” article.

## TYPICAL ANALYSIS

Appearance	yellowish brown paste
Charge	anionic
Active substance	70 – 80 %

## PROPRIETÀ

K-DOL VP/6 is a carefully formulated fatliquor for the Italian classic “vacchetta” article, to be used without pressing the leathers: it gives drummed leather with uniform grain pattern.

The resulting leather are soft and suitable for further milling to obtain fine uniform grain.

## APPLICATION

After retanning and eventual dyeing, wash with warm water reaching a pH value of 4-4.2.

After draining, add:

K-DOL VP/6	10 to 13 %
K-DOL P/C	1 to 2 %,

drum 1 h-1h 30 min, then add water at 45 °C (50 %) and formic acid (0.3 %), drain and cool the leather.

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# K-DOL W 100

K-DOL W 100 is a waterproofing fatliquor.

## TYPICAL ANALYSIS

Appearance	white paste
Active matter	45 ± 3 %
Chemical composition	emulsified synthetic oils
pH (10 % solution)	6.5÷8.5
Lightfastness	Excellent

## PROPERTIES

K-DOL W 100 is a waterproofing synthetic fatliquor with very high softening properties. It can be used as the main fatliquor for garment and upholstery leathers, and is also suitable for the production of washable leathers. K-DOL W 100 can be treated with polyvalent metal salts for the production of water repellent leathers. It can be used with other fatliquors and when used in sufficient quantities, it will increase the water resistance of the leather. Normal acid fixation suffices.

K-DOL W 100 can be used for the fatliquoring of vegetable tanned leathers. Good resistance to the effects of water drops is achieved.

## APPLICATION

K-DOL W 100 can be used in 2.0÷4.0 % amount for general applications, also in combination with other fatliquors.

For full waterproofing properties, K-DOL W 100 applied alone or in combination with other waterproofing fatliquors, needs a fixation with polyvalent metal salts. Double washes after neutralization and chrome fixation are recommended to achieve full waterproofing.

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# K-DOL W 200

K-DOL W 200 is a synthetic waterproofing fatliquor for those leathers that have to meet the highest standards in waterproofing.

## TYPICAL ANALYSIS

Composition	Emulsified synthetic oils
Appearance	White liquid (20 °C)
Active substance	40 ± 3 %
pH (10 % solution)	8.5 ÷ 10.5
Light fastness	Excellent

## PROPERTIES

K-DOL W 200 gives a very full and round handle. It is used for the production of thick and firm upper leathers but it is perfectly suitable for soft articles. Moreover, it is suitable for the production of washable leathers.

K-DOL W 200 should be treated with polyvalent metal salts for the production of waterproof leathers with good Bally penetrometer and Maeser resistance: double washes after neutralization and chrome fixation are recommended. However, this product can be used with other fatliquors and when used in sufficient quantities, it will increase the water resistance of the leather: normal acid fixation suffices.

K-DOL W 200 can be used for the fatliquoring of veg tanned leathers. Good resistance to the effects of water drops is achieved.

## APPLICATION

It is generally used an amount from 9.0 to 14.0 %, depending on the particular effect required.

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# K-DOL W600

K-DOL W600 is a water emulsion of polydimethylsiloxane.

## TYPICAL ANALYSIS

Chemical constitution:	dimethylpolysiloxane emulsified
Appearance:	off white
Active substance:	$33 \pm 3 \%$
Ionic charge:	non ionic
pH (10 % emulsion):	$8.5 \pm 1.0$
Water miscibility:	complete

## PROPERTIES

K-DOL W600 is a siliconic emulsion with waterproofing action.

## APPLICATION

The amounts to be used change according to the application. This product should be diluted with water before using.

This product has to be mixed or stirred well before using.

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