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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 dying intensity and offer certain darkness to the leather.

Product	Chemical composition	Apearance	pH A.M. Charge	Res. Luz Tacto	Application:
<b>SEROIL PBT</b>	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%.</p> <p>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.</p> <p>Table stuffing grease, by hand or roller : 100%</p>
		Opalescent.	100	Greasy	
		Brown.	Anionic		
<b>SEROIL PB</b>	Natural and synthetic origin fat.	Fluid liquid.	NA	Good	
		Opalescent.	100	Greasy-soft	
		Brown.	NA		
<b>SEROIL CC</b>	Quality natural origin fat.	Fluid liquid.	NA	Good	
		Transparent.	100	Greasy	
		Yellowish.	NA		
<b>SEROIL OF</b>	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
<b>SEROIL PLSN</b>	Compound based in sulphated fatliquor.	Fluid liquid. Transparent. Brown.	7,5±0,5 65±2 Anionic	Good	General application . Napa, shoes, leather goods.
<b>SEROIL TL</b>	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
<b>SEROIL TTK</b>	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.
<b>SEROIL CMT</b>	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.
<b>SEROIL MQ-SP</b>	Based on COD oil.	Fluid liquid. Transparent. Dark brown.	7,0±0,5 85±2 Anionic	Good	Deodorized. Very soft leathers.
<b>SEROIL MQ-9</b>	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.

<b>SEROIL SU</b>	Natural oils and sulfited synthetic.	Fluid liquid. Opalescent. Light brown.	7,5±0,5 70±2 Anionic	Good	Deodorized. Very soft leathers.
<b>SEROIL MS</b>	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.
<b>SEROIL SMZ</b>	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 igualation in dying process avoiding to low the dyes intensity. Very recommended for Shoe-upper articles.
<b>SEROIL P</b>	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.
<b>SEROIL PT</b>	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 compaction.

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
<b>SEROIL SOF</b>	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.
<b>SEROIL SPB</b>	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.
<b>Seroil SPC</b>	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.
<b>SEROIL FO</b>	Phosphoric polymer.	Fluid liquid. Transparent. Yellowish.	7,5±0,5 60±2 Anionic	Excellent	Soft and smooth leathers. All kind of leathers.
<b>SEROIL FE</b>	Phosphoric polymer.	Fluid liquid. Transparent. Beige	7,5±0,5 50±2 Anionic	Excellent	Soft and smooth leathers. All kind of leathers.
<b>SEROIL JP</b>	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
<b>SEROIL L-9</b>	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.
<b>SEROIL L</b>	Polymer fatliquor in Lecithin base.	Pasty. Opalescent. Yellowish.	7,5±0,5 50±2 Non-ionic	Good	Pleasant feel and inner lubrication.
<b>SEROIL SLL</b>	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.
<b>SEROIL LAN</b>	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.
<b>SEROIL SC-B</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
<b>SEROIL CL</b>	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).
<b>SEROIL KM-24</b>	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.
<b>SEROIL MLL</b>	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.
<b>SEROIL MLL-2</b>	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.
<b>SEROIL MNO</b>	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.



<b>SEROIL VS</b>	Natural fats and sulphated syntetics.	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.
<b>SEROIL WPS</b>	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).
<b>SEROIL WPH</b>	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).
<b>PLASTISER RA</b>	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 dying levelling/intensification in de last fatliquoring stage and finishing.
<b>PLASTISER RS</b>	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 dying levelling/intensification in de last fatliquoring stage and finishing.