

CHIMOTAN JW

Retanning copolymer based on synthetic polyphenols

CHEMICAL CHARACTERISTICS

Appearance:	Viscous liquid
Colour:	Ocra yellow
Smell:	Characteristic
pH (sol al 10%):	6,3 +/-0.5
Dry residue:	40,5 % +/- 1,5
Solubility:	Miscible
Charge:	Anionic
Lightfastness:	Great

PRODUCT CHARACTERISTICS

CHIMOTAN JW is a single molecule made up of a long polymer chain containing 2 polyphenolic groups of SYNTHETIC origin stably condensed on it.

This molecule has high tanning capabilities due to the presence of polyphenolic groups and high filling capabilities due to the excellent cross-linking ability it can perform through the polymer chain on the leather fibers.

CHIMOTAN JW is an innovative product as during the fixation phase on the skin, it manages to form long chains that stably connect the fibers to each other.

In particular, the connection between the molecules to form the chain occurs via the bonds placed on the two sides of the polymer chain, while the fixation on the fiber occurs via a bond created between the polyphenolic groups and the reactive groups of the skin.

During this cross-linking phase between the leather fibres, the polyphenolic groups which are too far from the protein fibers and which therefore cannot become saturated with them, remain available to form stable bonds with all the other chemical products used in the retanning phase.

For this reason, fatliquors, synthetic tannins, plant extracts, dyes etc. they have the possibility of finding further attachment points on the chain that has formed.

The tanning baths are exhausted in an optimal way and the leather is fuller and more pasty, with more intense color tones than it would be in a similar retanning where the copolymer is not present.

A very important aspect relating to the ability of the polymer to penetrate the skin is that the molecules, before cross-linking, tend to fill the empty spaces between the fibers of the skin.

We can therefore say that the distribution of the polymer molecules in the skin occurs in an uneven manner, concentrating higher quantities of product in the emptier parts.

For this reason, once the cross-linking of CHIMOTAN JW has taken place and after fixing the retanning products used on the polymer chains, an extraordinary filling of the spongy parts of the leather is obtained without however hardening the more compact parts.

CHIMOTAN JW has excellent penetration capacity at pH values above 5,5 and at temperatures below 35,0 °C.

It tends to cross-link, lowering the pH value to 3,6 – 3,8 where we obtain complete fixation of the product.

The increase in temperature facilitates its cross-linking reaction between the various molecules and between the fibers of the skin.

CHIMOTAN JW is stable with all anionic charge products.

Crosslinks rapidly in the presence of cationic products.

APPLICATIONS

Suitable for both the retanning of chrome-tanned leathers and with metal-free technologies and also on leathers tanned with vegetable extracts where grain firmness and great softness of the leather are required.

CHIMOTAN JW finds advantageous applications in the production of all types of articles, especially those intended for pastel or white colours.

Articles for furniture, footwear, leather goods and clothing both on full grain and splits find considerable advantages in the use of this polymer.

In fact, by exploiting its main prerogative which is to connect the fibers to each other in a stable manner and to fix all the other chemical products used in the retanning and fattening process along the chains that form between the fibers, it is possible to obtain the following advantages:

- Great fullness and uniformity of the skin.
- Still flower that does not blow.
- Excellent exhaustion of retanning baths.

For optimal application, we suggest working on skin neutralized at pH 5,2 – 5,4 with a uniform section.

In order to exploit all the potential of the polymer it is best to carry out the entire retanning, dyeing and fatliquoring process in a single bath.

Obviously the type and quantity of retanning agents and fatliquors used vary depending on the leather used, the thickness of the shaved hide and the article to be produced.

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Chemical-physical properties of the product have been determined in accordance with internal procedures by methods of analysis due to national and / or internationally recognised standards. The information contained in this data sheet are based on our current knowledge. Given the multiplicity of Factors that can influence the processing and use of our products, the customer is obliged to carry out its part tests and controls. No responsibility can Be taken by us for an incorrect use of the product

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