

# Denim Processing



**ACHITEX MINERVA**



# Products for denim processing

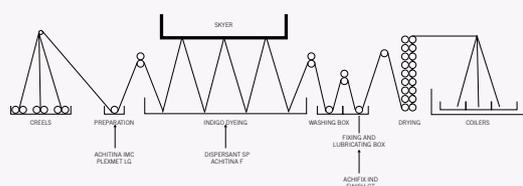
Achitex Minerva S.p.A. has been producing chemical specialties and auxiliaries for the textile industry since 1981. The Group offers its customers a product range that extends over 1200 specific preparations for every stage of the textile processing, ensuring that any industrial need can be satisfied. With its wide range of products for denim processing and its qualified team of technicians taking care of R&D and technical support, Achitex Minerva is a reliable partner for all companies involved in the dyeing and finishing of Denim.



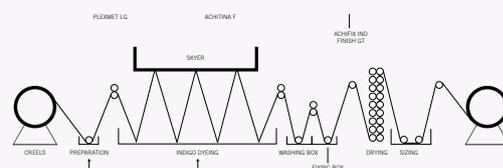
## DYEING

<b>ACHITINA F</b>	All-purpose emulsifying, dispersing, levelling agent and detergent of general use. Especially indicated for dispersions of sulphur and indigo dyes.
 <b>ACHITINA GO</b>	Wetting agent. Non foaming, stable to alkaline, reductive and oxidative conditions. Acts as a re-wetting agent and improves levelness of dyeing.
<b>ACHITINA IMC</b>	Wetting agent. Non foaming, stable to alkaline, reductive and oxidative conditions. Acts as a re-wetting agent and improves levelness of dyeing.
 <b>ACHIFIX GO</b>	Fixing agent. Especially indicated for indigo dyed yarns in continuous processes, in rope and in wide form. Suitable for sulphur dyes and indigo yarns. Improves the washing fastness and the resistance to stone washing, prevents staining on weft and on pockets.
<b>ACHIFIX IND</b>	Fixing agent. Especially indicated for indigo dyed yarns in continuous processes, in rope and in wide form. Suitable for sulphur dyes and indigo yarns. Improves the washing fastness and the resistance to stone washing, prevents staining on weft and on pockets.
<b>DISPERSANT SP</b>	Dispersing agent, protective colloid of vat and indigo dyes.
<b>FINISH GT</b>	Lubricating agent. Improves sliding between fibres, therefore it is useful for wet paraffining of cotton, linen yarns and their blends. Particularly suitable as a lubricant for the rope opening in the dyeing of denim.
 <b>PLEXMET KDM</b>	Ca and Mg sequestering-dispersing agent. Especially developed for cleaning of the yarn.

### Indigo rope dyeing



### Indigo shift dyeing



## DESIZING

<b>ECOLASE HN</b>	Enzymatic (alpha-amylase) desizing agent. Resistant to high temperatures (95-100° C), suitable for desizing starch.
<b>ECOLASE LF</b>	Enzymatic (alpha-amylase) desizing agent. Suitable for padding application at 40-70° C, used in pad-batch desizing. Suitable for discontinuous operations.
<b>ECOPON IBS</b>	Non siliconic de-aerating and wetting agent. Very stable under alkaline conditions and high temperature. Can be used as anti-foamer during desizing, scouring and bleaching operations of cotton yarns and fabrics and cotton blends. Increases the efficiency of the surface-active agents used in preparation.
 <b>ECOPON LO</b>	Detergent and wetting agent with a high dispersing power. Low foaming, maintains high hydrophilicity to the fibre. High stability to caustic soda solutions, suitable for cotton desizing, scouring and bleaching and for wool.
<b>PLEXMET RE N</b>	Dispersing and sequestering agent specific for soaping. Very strong dispersing action and excellent complexing power towards calcium ions. Does not affect dyestuff exhaustion, not surface-active, non foaming.

# MERCERIZATION

One of main drawbacks of the mercerization process is the “staining on weft” effect. The products OXITON S LIQ and OXITON ECO, applied during the mercerization process or during the washing process provide an effective remedy for this problem.

<b>LAVAPAL N800</b>	Backstaining prevention agent for denim garment process. It preserves weft and pockets from staining.
<b>MERCERIZING MF</b>	Wetting agent for mercerization and caustic soda operations, cresols-free. Non foaming, has a dispersing and sequestering action against impurities and earthalkaline salts. Stable till 28-30° Bè.
<b>OXITON ECO</b>	Ecological oxidizing agent for sulphur, hydron and vat dyes. Improves rubbing fastness, dyestuffs exhaustion and reproducibility.
<b>OXITON S LIQ</b>	Anti-reduction agent. Suitable in reactive dyes dyeing and in vat dyes oxidation

Approved by Global Organic Textile Standard (GOTS)



Fabric treated with oxiton



Untreated fabric

# FINISHING

The wide range of products available for finishing provides solutions to the requirements of a market in continuous evolution.

## Traditional finishing

<b>FINISH 36L</b>	Silicone slightly reactive micro-emulsion, very stable; it appears as a colloidal solution. It can be used together with resins and not ionic/cationic finishing products, with good bath stability. It gives a slippery and smooth handle to fabrics, and does not have any influence on the degree of whiteness.
<b>FINISH SJ</b>	Finishing auxiliary to improve sewability to all natural fibers and their blends, giving soft handle and gloss effect without affecting the shade and the white degree. Confers elasticity to knitted goods.
<b>GLIOFIX B00 CAT</b>	Zero formaldehyde self-catalytic glyoxalic resin. Improves handle and dimension stability, has a slight influence on white degree and hue of dyed substrates.
<b>POLIFINISH 30 NI</b>	Polyethylenic emulsion for textile finishing. Gives a soft handle, increases the tear and abrasion strength and improves the sewability. Suitable for padding application.

## Finishing by foaming/coating

<b>ACHITFOAM SD</b>	Amide derivative, with foaming effect.
<b>BINDER 521</b>	Dispersion of vinyl polymer. It forms a rigid film.
<b>BINDER ACM</b>	Dispersion of self-crosslinking acrylic polymer. It forms a soft, transparent and flexible film.
<b>BINDER SE CONC</b>	Dispersion of self-crosslinking acrylic polymer. It forms a transparent and stiff film.
<b>CROSSLINKER M</b>	Blocked diisocyanate, cross-linker, activation temperature at 100-120°C.
<b>ECOPON AM ST</b>	Dispersion of salified fatty acid, with foam stabilizing effect.
<b>FINISH PL LIQ</b>	Polyurethane latex. It provides a glossy effect.
<b>FINISH PNI</b>	Polyurethane latex. It provides an elastic, gummy effect.
<b>MINERPRINT PIGMENTS</b>	Range of pigment dispersions for coloured effects.



Achitex Minerva SpA - Via degli Artigiani, 6 - 26010 Vaiano Cremasco (CR) - Italy  
Ph. +39 0373 279711 - Fax +39 0373 279717 - [www.achitexminerva.com](http://www.achitexminerva.com)

UNI EN ISO 9001:2015  
UNI EN ISO 14001:2015



CERTIFIED MANAGEMENT  
SYSTEMS

