

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 is a reliable partner for all companies involved in the dyeing and finishing of Denim.

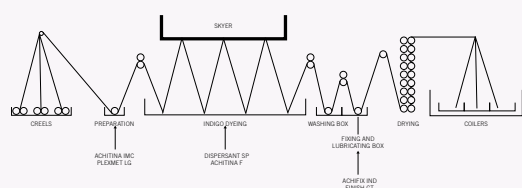


DYEING

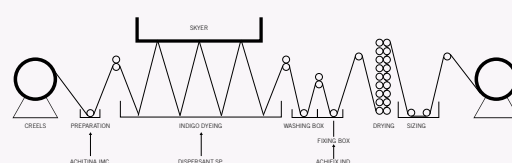


ACHITINA IMC	Wetting agent. Non foaming, stable to alkaline, reductive and oxidative conditions. Acts as a re-wetting agent and improves levelness of dyeing.
ACHITINA GO	Wetting agent. Non foaming, stable to alkaline, reductive and oxidative conditions. Acts as a re-wetting agent and improves levelness of dyeing. Approved by Global Organic Textile Standard (GOTS).
PLEXMET KDM	Ca and Mg sequestering-dispersing agent. Especially developed for cleaning of the yarn. Approved by Global Organic Textile Standard (GOTS).
DISPERSANT SP	Dispersing agent, protective colloid of vat and indigo dyes.
ACHITINA F	All-purpose emulsifying, dispersing, levelling agent and detergent of general use. Especially indicated for dispersions of sulphur and indigo dyes.
ACHIFIX IND	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.
ACHIFIX GO	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. Approved by Global Organic Textile Standard (GOTS).
FINISH GT	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.

Indigo rope dyeing



Indigo shift dyeing



DESIZING

ECOPON LO	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.
PLEXMET RE N	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.
ECOPON IBS	Non silicic 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.
ECOLASE HN	Enzymatic (alpha-amylase) desizing agent. Resistant to high temperatures (95-100° C), suitable for desizing starch.
ECOLASE LF	Enzymatic (alpha-amylase) desizing agent. Suitable for padding application at 40-70° C, used in pad-batch desizing. Suitable for discontinuous operations.

MERCERIZATION

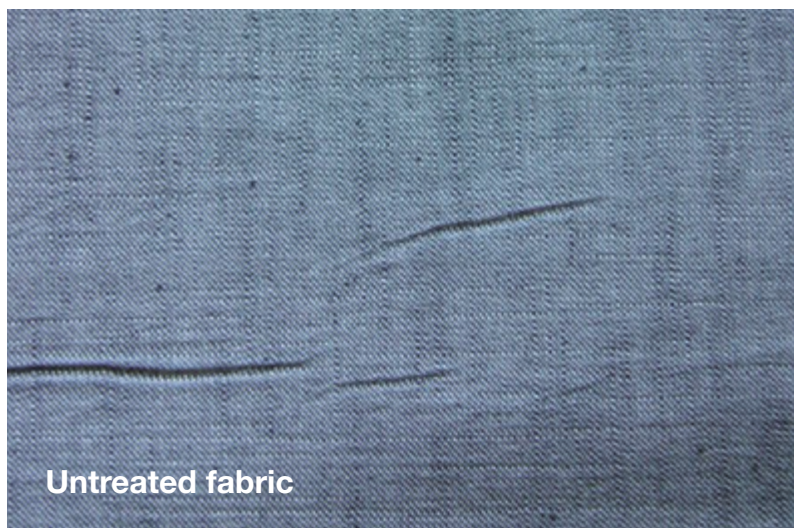
One of main drawbacks of the mercerization process is the “staining on weft” effect. The products Oxiton S Liq. and Oxiton SP2, applied during the mercerization process or during the washing process provide an effective remedy for this problem.

OXITON S LIQ	Anti-reduction agent. Suitable in reactive dyes dyeing and in vat dyes oxidation
OXITON SP2	Ecological oxidizing agent for sulphur, hydron and vat dyes. Improves rubbing fastness, dyestuffs exhaustion and reproducibility.
MERCERIZING MF	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° Bé. Approved by Global Organic Textile Standard (GOTS).
LAVAPAL N800	Backstaining prevention agent for denim garment process. It preserves weft and pockets from staining.

 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

FINISH 36L	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.
POLIFINISH 30 NI	Polyethylenic emulsion for textile finishing. Gives a soft handle, increases the tear and abrasion strength and improves the sewability. Suitable for padding application.
FINISH SJ	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.
GLIOFIX LFC EXTRA	Low formaldehyde self-catalytic glyoxalic resin. Improves handle and dimension stability, has a slight influence on white degree and hue of dyed substrates.

Finishing by foaming/coating

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



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