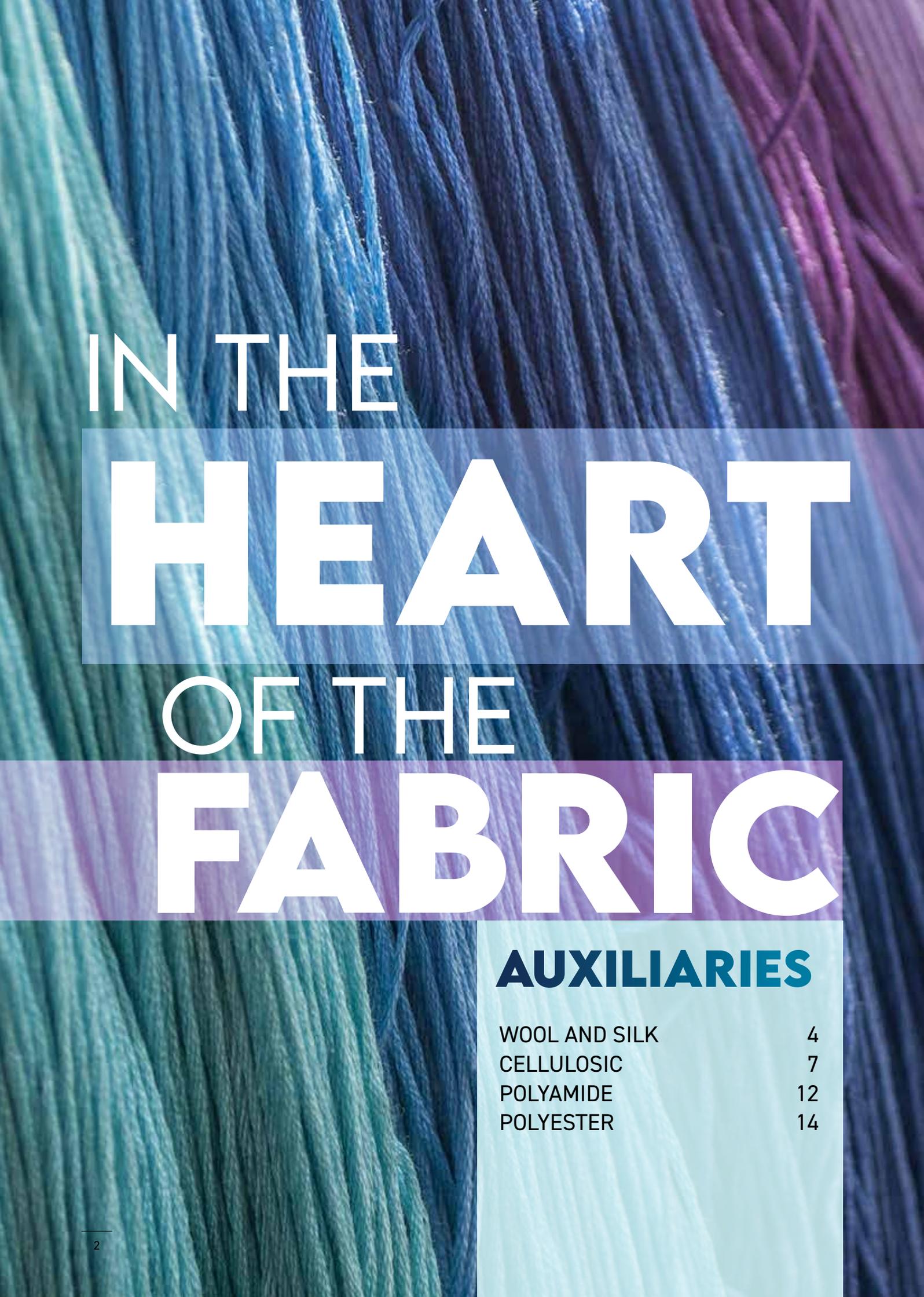




AUXILIARIES



ACHITEXMINERVA



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AUXILIARIES

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AUXILIARIES

PREPARATION, DYEING AND FINISHING

Achitex Minerva Group produces and sells a wide range of auxiliary products to meet all textile processes from preparation to dyeing and finishing.

The Group has got products suitable for the treatment of natural, synthetic and artificial fibres, for the processing of substrates such as yarns, fabrics, knitwear and clothing. Its auxiliaries enable the textile producers to manufacture quality garments with a comfortable feeling.

R&D department is constantly engaged in the search for innovative and performing formulations, able to meet the needs of the market and customers, while still safeguarding the environment and common goods for future generations.

The chemical experience, combined with a careful selection of raw materials, allows Achitex Minerva Group to meet the most important international standards required by the textile industry: products and applications are processed in compliance with current regulations and voluntary certifications, in order to meet the technical-application criteria and respond to the growing needs of less environmental and human impact.

The formulated auxiliaries are intended for the production and processing of all types of fibres, through an offer in continuous development.



ADVANTAGES

- ✓ Increase the natural performances and characteristic of the fibers
- ✓ Give special final features to the fibers
- ✓ Simplify the textile processes
- ✓ Available for all kind of fibers and process
- ✓ Certified products (GOTS, bluesign, Inditex, ZDHC...)
- ✓ Reduced environmental impact
- ✓ Saving of water and energy in processes, using special products



WOOL AND SILK

Both are natural protein fiber obtained from sheep fleece, as far as wool is concerned, and some insects in reference to silk. Wool fiber mainly consists of protein substances of variable length with a circular section covered with scales. This structure and composition confers softness, elasticity, high degree of thermal insulation and thermal resistance. Silk is basically constituted by sericin, the filament has a variable length, and once the yarns are "degummed", they acquire an enormous shine and flexibility.

Auxiliaries allow the treatment of animal fibres at every stage of the process, from pre-treatment to finishing, enhancing the natural characteristics of the fibers.

PREPARATION

DETERGENTS

ECOPON SOL series	Ecological detergent and wetting agent for scouring preparation, cotton and cellulosic blend. Recommended for discontinuous systems.	NI
EMULTERGE OIL series	Detergent and wetting agent based on natural substance with high emulsifying power against lipophilic substances, such as wax oils and paraffins.	NI
SOAP SG 724	Ready-to-use compound for the silk preparation; sequestering agent and detergent with high degumming power.	A

ROPE MARK INHIBITORS

TEXLUBE EXTRA series	 Special anti-crease product based on natural substances that swells the fiber increasing the smoothness of the touch. It reduces the friction between fibers and fiber and metal parts.	NI
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DYEING

LEVELING AGENTS AND CARRIERS

ACHITEGAL A 12	Leveling agent with dispersing properties that prevents irregular dyeing, with excellent affinity for both dyes and fiber.	NI - C
ACHITEGAL C 50 CONC	Leveling agent for acid dyes and soaping agent for dyeing and printing performed with these dyestuff's classes. It can also be used in the discharge of defective dyes.	C - NI
ACHITINA F series	Excellent dispersing agent with high emulsifying and compatibilizing activity (increases the solubilization of the dye even in the presence of oily substances), which can also be used during the soaping phase.	NI
SETALAN 592 LIQ	Coadjuvant in wool dyeing with excellent penetrating power (staple), that increases the dyeing yield and allows also to decrease the temperature in the process. It increases the spinning yield and reduces process waste.	NI
SETALAN LT	Coadjuvant in wool dyeing with excellent penetrating power (staple), that increases the dyeing yield and allows also to decrease the temperature in the process.	NI

DEFOAMING AGENTS

DEFOAMER AC series	Defoaming agent, based on silicone.	ND
DEFOAMER VO	Defoaming agent, based on vegetable oil self-emulsifiers.	NI

ACID DONORS

POLIACID GS series	Acid donor that allows a slow drop of pH dye-bath improving the quality of the dyeing.	ND
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AFTER DYEING

WASHING AGENTS

ACHITEGAL C 50 CONC	Low temperature soaping that keeps the grounds white during washing.	C - NI
LAVAPRINT MF	Washing agent of the unfixed dye, that keeps the color tones clear.	NI - C

FIXING AGENT

ACHIFIX ECO series	Fixing agent that increases wet fastness highly effective, without alter the touch of the treated supports.	C
ACHIFIX PA	Fixing agent for acid dyes, suitable to improve the wet fastness.	A
ACHIFIX STRONG FF	Fixing agent for acid dyes, suitable to improve the wet fastness. Very stable to acid.	A

FINISHING

SOFTENERS

ACHITSOFT TE	Softener suitable for the reconditioning of wool and for a partial reconstruction of the fat refill as an alternative to natural lanolin.	NI - C
FINISH 36 series	Finishing agent that increases elasticity and providing a very soft touch.	NI - C
FINISH N 46 series	Hydrophilic silicone softener, highly processable, which gives an excellent finishing touch and freshness. Very stable on turbulence.	NI - C
FINISH S 50 series	Silicone softener which gives a very smooth effect and silk touch.	NI - C
FINISH TCF series	 Specific softeners for wool that swell the substrate and give it a smooth and pleasant touch. This series can be used both on mesh/fabric and on garment. Combined with ECOPON LP in the treatment of garments give a sensational look and feel.	C - NI
FINISH VP 4 NEW	Finishing agent that gives to the treated article anti-felting and anti-pilling properties. Suitable for both fabrics and garments.	A
FINISH VS	Special high-yield finishing agent that gives a full and elastic hand with smooth and shiny surface. Ennobles the treated article by increasing its value.	NI - C
POLIFINISH PO 40	Lubricant that reduces sewing damage during garment manufacturing, compatible with finishing agent.	NI
STABILAN GRA CONC	Reducing agent for the chemical fixing of wool, compatible with normal finishing products. It doesn't affect any subsequent waterproofing treatments but promotes subsequent dyeing.	ND
STABILAN MM	Unique product for the "arostretch " treatment that allows to obtain comfort effects on wool fabrics.	ND

FULLING AGENTS

ECOPON LP series	Fulling agent with washing and reserving effect of the white parts (undyed or printed). High swelling power combined with high density foam formation. It gives a natural feeling to wool.	NI - C
NOVAFULL ST	Fulling agent with high swelling power combined with high density foam formation. It gives a natural feeling to wool.	C - NI



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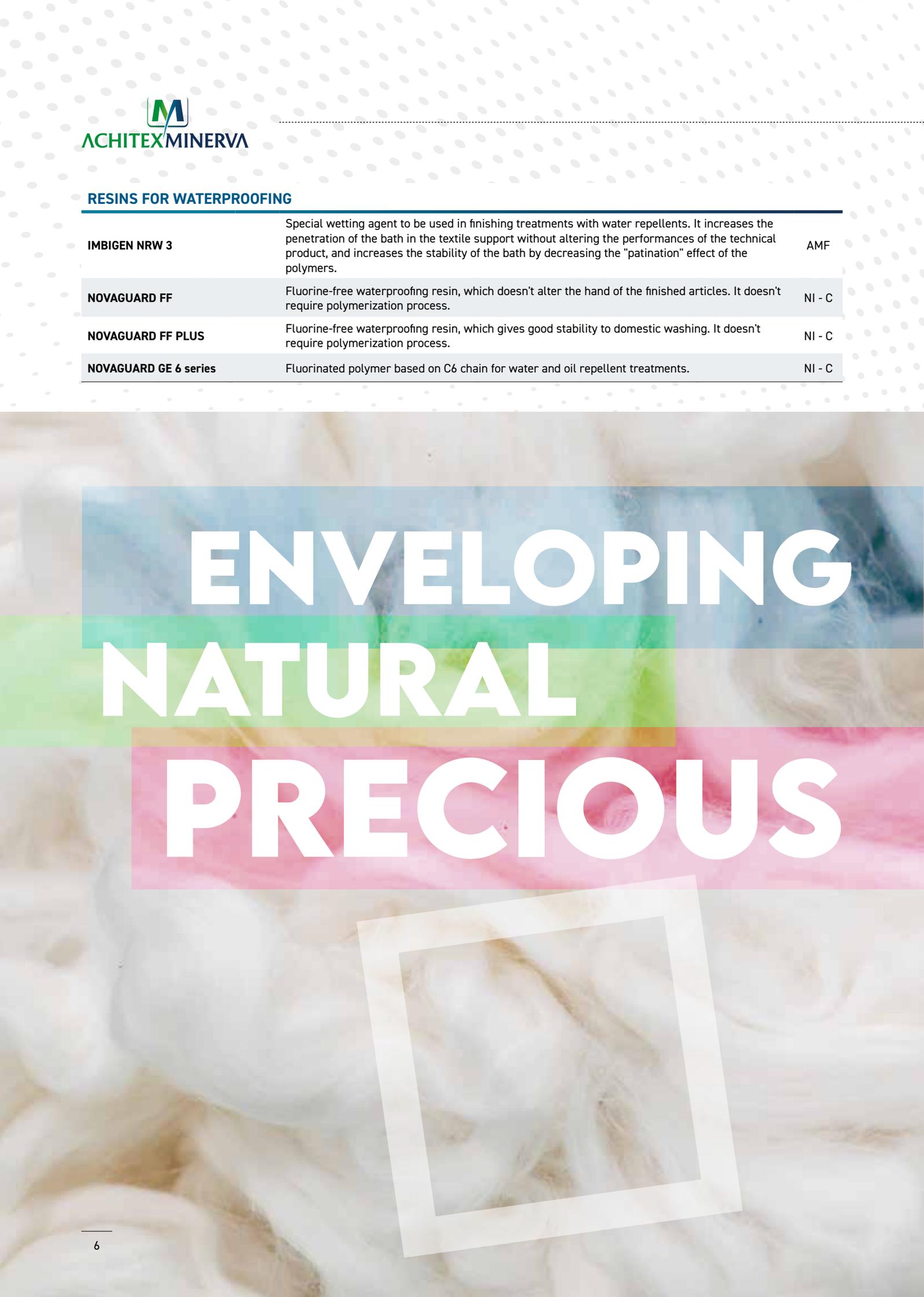


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RESINS FOR WATERPROOFING

IMBIGEN NRW 3	Special wetting agent to be used in finishing treatments with water repellents. It increases the penetration of the bath in the textile support without altering the performances of the technical product, and increases the stability of the bath by decreasing the "patination" effect of the polymers.	AMF
NOVAGUARD FF	Fluorine-free waterproofing resin, which doesn't alter the hand of the finished articles. It doesn't require polymerization process.	NI - C
NOVAGUARD FF PLUS	Fluorine-free waterproofing resin, which gives good stability to domestic washing. It doesn't require polymerization process.	NI - C
NOVAGUARD GE 6 series	Fluorinated polymer based on C6 chain for water and oil repellent treatments.	NI - C



**ENVELOPING
NATURAL
PRECIOUS**



CELLULOSIC

Natural fibers of vegetable origin made up mostly of cellulosic polymers. Cotton, linen, hemp, etc... are mainly made up of this polymer, and the articles made up of it, suitably processed, give rise to a wide range of finished products that can be used in various areas clothes, furnishings and hospital.

Auxiliaries allow the treatment of cellulosic fibres at every stage of the process, from pre-treatment to finishing, ensuring stability and higher performance.

PREPARATION AND BLEACHING

MULTIFUNCTIONAL AGENT FOR BLEACHING

ECOPON ONE	 	Special all-in compound for bleaching cotton and its blends at 70 - 80°C. It gives excellent hydrophilicity and an acceptable degree of whiteness: the basis for subsequent dyeing.	NI
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DESIZING PRODUCTS

ECOLASE HN		Enzyme for desizing of starchy substances carried out until 100°C.	ND
ECOLASE LF		Enzyme for desize of starchy substances carried out at low temperatures (60°C).	ND

DETERGENTS

ACHITERGE 64 LIQ		Detergent and wetting agent for discontinuous system, with high detergent power.	A - NI
ACHITERGE NA LIQ		Detergent and wetting agent stable in strongly alkaline conditions.	A - NI
ECOPON APL		Concentrated detergent and wetting agent for discontinuous system, low foaming.	NI
ECOPON LO		High concentrated detergent and wetting agent for continuous and discontinuous systems, with high emulsifier powder. It gives great hydrophilicity to the treated substrate.	NI
ECOPON OW 60 CONC		Detergent and wetting agent for discontinuous system, low foaming.	NI
ECOPON SOL series		Ecological detergent and wetting agent for scouring preparation, cotton and cellulosic blend. Recommended for discontinuous systems.	A - NI
EMULTERGE OIL series		Detergent and wetting agent based on natural substance with high emulsifying power against lipophilic substances, such as wax oils and paraffins.	NI

SEQUESTERING AGENTS

BIPLEX K		Natural sequestering agent to catch iron and copper in alkaline conditions, recommended above all in preparation.	ND
PLEXMET KDM		Sequestering agent to reduce water ardor and catch iron and copper, recommended above all in preparation. If used in alkaline baths with silicates, it favors the cleaning of the incrustations caused by the sedimentation of the latter.	A
PLEXMET SRN		Sequestering agent to reduce water ardor and to dispers the color in the dye, without alter the color tones.	A



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PEROXIDE STABILIZERS

STABILOXI AR	Stabilizer for hydrogen peroxide, in particular for continuous systems and steaming processes (linen).	ND
STABILOXI LG	Stabilizer for hydrogen peroxide, in particular for continuous systems and steaming processes.	A
STABILOXI PG	Stabilizer for hydrogen peroxide, in particular for discontinuous systems.	A

CATALYST

CATALYST LT	 Activator of the hydrogen peroxide in bleaching system which works at 70°C.	ND
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ROPE MARK INHIBITORS

ACHITFLOW L	Rope mark inhibitor which gives a final soft touch. Multipurpose for fibers and machinery.	NI
NOVALUBE AM	Rope mark inhibitor. Multipurpose for fibers and machinery.	ND
TEXLUBE EXTRA series	 Rope mark inhibitor and very special anti-crease product based on natural substance, which gives a final soft touch and allows a good penetration of the liquor into the fiber. It swells the fiber increasing the smoothness of the touch. Multipurpose for fibers and machinery, it reduces the friction between fiber and fiber and fiber and metal parts.	NI

ACID BUFFERS

PLEXMET 2H	Acid buffer and sequestering agent especially for iron and copper. Usable also in finishing bath to buffer the pH.	ND
PLEXMET KDA CONC	Acid buffer and very strong sequestering agent especially for iron and copper.	ND

MERCERIZING AGENTS

ANTIFOAM MF	Defoamer for mercerization processes.	A
MERCERIZING MF	Wetting agent for alkaline liquor up to 30 Bè of NaOH which allows the reintegration of exhausted baths by virtue of a good dispersing power of alkaline earth salts. Recommended for its high efficiency and stability.	ND

PEROXIDE NEUTRALIZERS

REDOXONE OK LIQ	Catalase enzyme to remove the residual of hydrogen peroxide in neutral pH condition, at around 50°C.	ND
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SPECIAL PRODUCTS FOR PREPARATION

ECOLASE PE	Enzyme for bioscouring of cotton and its blends (especially in wool blend).	ND
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OPTICAL BRIGHTENERS

BLANCOGEN BUL series	Neutral optical brightener for continuous processes.	A
BLANCOGEN BUL CONC	Neutral optical brightener for continuous processes.	A
BLANCOGEN CTS CONC	Neutral optical brightener for continuous processes, very stable in acid condition (with resins).	A



DYEING

WETTING AGENTS

ACHITINA GO	Wetting agent for dyeing processes with a high alkali resistance. Low foaming.	A
ACHITINA IMC	Wetting agent for dyeing processes with a high alkali resistance. Low foaming.	A
ECOPON DG	Wetting agent for dyeing processes.	A

LEVELING AGENTS AND CARRIERS

ACHITEGAL A	Levelling agent for vat dyes, suitable for improving the discharge of dyeing.	C
ACHITEGAL DRT	Levelling agent for direct and vat dyes.	A - NI
ACHITINA F series	Excellent dispersing agent with high emulsifying and compatibilizing activity (increases the solubilization of the dye even in the presence of oily substances), which can also be used during the soaping phase.	NI
SINERGIL FA	Auxiliary for dyeing pigments with anti-migration and wetting function. Low foam formation and good anti-static effect.	

DISPERSING AGENTS

PLEXMET BIO series	 Bio-degradable acrylic sugar copolymer, with excellent dispersing and sequestering behavior, usable in dyeing without altering color tones.	A
PLEXMET HP	Dispersing and sequestering agent with cleansing action of cotton, which allows the dyeing of the dark tones of raw cotton.	A
PLEXMET RE N	Dispersing and sequestering agent for dyeing.	A

ALKALI BUFFERS

KALTEX A	Alkali buffer agent for reactive dyes.	ND
KALTEX C	Alkali buffer agent for reactive dyes, especially for black.	ND

ANTI REDUCING AGENT

OXITON ECO	Anti-reducing agent to prevent the dyes reduction, that can also be used to oxidize the sulfur dyes.	ND
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DEFOAMING AGENTS

DEFOAMER AC series	Defoaming agent, based on silicone.	ND
DEFOAMER VO	Defoaming agent, based on vegetable oil self-emulsifiers.	NI



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AFTER DYEING

NEUTRALIZER AGENT

POLIACID ESP	Acid agent and buffer for neutralization after bleaching or in finishing processes.	ND
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WASHING AGENTS

ACHITEGAL A	Washing agent after reactive and vat dyeing; reserving agent during the discharge phase.	C
ACHITEGAL C 50 CONC	 Equalizing agent for acid and pre-methalized dyes for dyeing and printing performed with these dyestuff's classes. It can also be used in the discharge of defective dyes. For cellulosic fibres it can also be used like soaping agent at low temperature washing (60 - 70°C).	C - NI
LAVAPRINT MF	Washing agent to be used after printing to eliminate residues of printing paste and non-fixed colors, maintaining unaltered tones and white backgrounds.	NI - C
LAVAPRINT PC	Washing agent after reactive and vat dyeing, which combines an excellent washing power with a reserving effect of light tones and white backgrounds.	NI - C
LAVAPRINT STP	Washing agent after reactive and dispers dyeing/printing, for continuous systems.	A
PLEXMET BIO series	 Bio-degradable acrylic sugar copolymer, with excellent dispersing and sequestering behavior, usable in dyeing without altering color tones.	A
PLEXMET SRN	Dispersing and sequestering agent.	A

FIXING AGENTS

ACHIFIX CRR	Special fixing agent that increases the rubbing fastness of reactive dyes.	A
ACHIFIX ECO series	Fixing agent that increases wet fastness, without affect the shade and the final touch, highly effective.	C
ACHIFIX GO	Fixing agent that increases wet fastness without affect the shade.	C
ACHIFIX IND series	Fixing agent for indigo dyes, that increases the yield of indigo and reserve the weft during washing process.	C
ACHIFIX MB series	Fixing agent that increases wet fastness without affect the shade.	C





FINISHING

SOFTENERS

ACHITSOFT AI	Softener compatible with OBA recommended for fabrics that need to be brushed. It doesn't affect white and hydrophilicity.	NI
ACHITSOFT MCA	Softener which give a supported and swollen hand.	C - NI
ACHITSOFT WPT	Softener which doesn't cause yellowing and maintains the pH of the fabric buffered at 6.	NI - C
FINISH 36 series	Finishing agent that increases elasticity and providing a very soft touch.	NI - C
FINISH GT	Lubricant finishing suitable to reopen the tape.	NI - C
FINISH MHI	Hydrophilic macro-emulsion finishing agent with very soft touch and breathability. Darkening of the tones.	NI - C
FINISH N 46 series	Hydrophilic silicone softener, highly processable, which gives an excellent finishing touch and freshness. Very stable on turbulence.	NI - C
FINISH S 50 series	Silicone softener which gives a very smooth effect and silk touch.	C - NI
FINISH SJ	Softener and lubricant that doesn't alter the color tones and doesn't cause yellowing of the backgrounds.	NI
POLIFINISH PO 40	Lubricant that reduces sewing damage during garment manufacturing, compatible with finishing agent.	NI

BIO - POLISH PRODUCTS

ACHISTONE L	Biopolishing enzyme that works in acid pH condition, at around 50°C.	
ACHISTONE NEUTRAL LIQ	Biopolishing enzyme that works in neutral pH condition, at around 40°C.	

RESINS FOR DIMENSIONAL STABILITY

GLIOFIX B00 NEW	Resin suitable to increase the dimensional stability of the fabrics, formaldehyde free.	ND
GLIOFIX B00 CAT NEW	Pre-catalyzed resin suitable to increase the dimensional stability of the fabrics, formaldehyde free.	ND

RESINS FOR WATERPROOFING

IMBIGEN NRW 3		Special wetting agent to be used in finishing treatments with water repellents. It increases the penetration of the bath in the textile support without altering the performances of the technical product, and increases the stability of the bath by decreasing the "patination" effect of the polymers.	AMF
NOVAGUARD FF		Fluorine-free waterproofing resin, which doesn't alter the hand of the finished articles. It doesn't require polymerization process.	NI - C
NOVAGUARD FF PLUS		Fluorine-free waterproofing resin, which gives good stability to domestic washing. It doesn't require polymerization process.	NI - C
NOVAGUARD GE 6 series		Fluorinated polymer based on C6 chain for water- and oil-repellent treatments.	NI - C



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POLYAMIDE

It's a fiber composed by linear macromolecules which have a recurrence of amide bonds in the chain. There are different degrees of modification that identify numerous types of polyamides with different prerogatives. Generally all of them have a high elastic recovery, wear resistance, good heat retention and easy maintenance.

Auxiliaries allow the treatment of polyamide fibres at every stage of the process, giving distinctive characteristics to the treated fiber.

PREPARATION

DETERGENT

EMULTERGE OIL series	Detergent and wetting agent based on natural substance with high emulsifying power against lipophilic substances, such as wax oils and paraffins.	NI
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ROPE MARK INHIBITORS

TEXLUBE EXTRA series	 Rope mark inhibitor and very special anti-crease product based on natural substance, which gives a final soft touch and allows a good penetration of the liquor into the fiber. It swells the fiber increasing the smoothness of the touch. Multipurpose for fibers and machinery, it reduces the friction between fiber and fiber and fiber and metal parts.	NI
TEXLUBE IDRO	Special anti crease/softener, it reduces the marks and gives a very soft hand (like a softener) and hydrofilia to the material.	AMF
TEXLUBE TF CONC	Rope inhibitors and hydrophilicizing for seamless in Polyamide.	NI

DYEING

LEVELLING AGENTS AND CARRIERS

ACHITEGAL A 12	Leveling agent with dispersing properties that prevents irregular dyeing, with excellent affinity for both dyes and fiber.	NI - C
ACHITEGAL TBG	Leveling agent with dispersing properties, that slow down the rise of colors and prevents uneven dyeing.	AMF

ACID DONORS

POLIACID GS series	Acid donor that allows a slow drop of pH dye-bath improving the quality of the dying.	ND
POLIACID VAX	Acid donor that allows a slow drop of pH dye-bath, especially indicated for pastel tones.	ND

AFTER DYEING

WASHING AGENTS

ACHITEGAL C 50 CONC	Leveling and washing agent that keeps the grounds white during washing.	C - NI
LAVAPRINT MF	Washing agent of the unfixed dye, that keeps the color tones clear.	NI - C

FIXING AGENTS

ACHIFIX PA	Fixing agent for acid dyes, suitable to improve the wet fastness.	A
ACHIFIX STRONG FF	Fixing agent for acid dyes, suitable to improve the wet fastness. Very stable to acid.	A



FINISHING

SOFTENERS

ACHITSOFT IDRO	Softener that gives a smooth effect, hydrophilicity and breathability to the garment.	NI - C
FINISH N 46 series	Hydrophilic silicone softener, highly processable, which gives an excellent finishing touch and freshness. Very stable on turbulence.	NI - C
FINISH S 50 series	Silicone softener which gives a very smooth effect and silk touch.	C - NI
POLIFINISH PO 40	Lubricant that reduces sewing damage during garment manufacturing, compatible with finishing agent.	NI

DIGITAL PRE-TREATMENTS

PRIMERS FOR ACID DYES INKS

MINERPRIMER INK A	Preparation auxiliary for ink-jet printing with acid dyes, of which improve the fixation. It gives to the prints a high definition of outlines, good uniformity and high color yield. Its dispersing effect prevents any re-deposition of the non-fixed colors on the fiber, allowing to maintain the colour intensity and to avoid the colouring of backgrounds. It's the ideal solution to intensify the turquoise tones on polyamides for swimwear. Easily removable during washing.	ND
MINERPRIMER INK A PA	Ready-to-use version of MINERPRIMER INK A	ND



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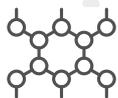


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POLYESTER

Synthetic character fibers are made up of polymers with "ester" functional groups. Main characteristics of polyester based fabrics are toughness, resilience, high abrasion resistance and a high thermal degree.

Auxiliaries allow the treatment of polyester fibres at every stage of the process, from pre-treatment to finishing, by conferring antistaticity and washability characteristics as the final result.

PREPARATION

DETERGENTS

ACHITERGE F 47	Detergent and wetting agent with solvent, with high emulsifying and dispersing power.	A - NI
ACHITERGE S LIQ	Detergent with solvent, with remarkable solvent action.	A - NI
EMULTERGE OIL series	Detergent and wetting agent based on natural substance with high emulsifying power against lipophilic substances, such as wax oils and paraffins.	NI
EMULTERGE PES	Detergent and emulsifying agent, usable in a single preparation / dyeing step, low foaming.	NI

ROPE MARK INHIBITORS

NOVALUBE AM	General anti-crease product.	ND
TEXLUBE EXTRA series	 Rope mark inhibitor and very special anti-crease product based on natural substance, which gives a final soft touch and allows a good penetration of the liquor into the fiber. It swells the fiber increasing the smoothness of the touch. Multipurpose for fibers and machinery, it reduces the friction between fiber and fiber and fiber and metal parts.	NI

DYEING

LEVELING AGENTS AND CARRIERS

ACHITEGAL 314 NEW	Leveling agent with carrier.	NI
ACHITEGAL 619	Dispersing and leveling agent that combines the two functions in a single product.	NI - A
ACHITEGAL P 2020	Leveling agent with dispersing properties that prevents irregular dyeing.	NI
ACHITEGAL PLD	Self-emulsifiable carrier, with high yield, suitable to increase colors diffusion.	NI
UNIGAL PE 57	Leveling agent with good color diffusion, optimal for reel dyeing.	NI

DISPERSING AGENTS

PLEXMET TU	Dispersing agent that prevents the precipitation of disperse dyes, highly efficient with turquoise.	A
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WETTING AGENTS

ECOPON BTK	General wetting agent with a high penetration in very closed bobbins.	NI
IMBIGEN L 41	General wetting agent.	NI - A



DEFOAMING AGENTS

DEFOAMER FC J series	Defoaming agent stable at high temperature, under pressure.	
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DISPERSING AGENTS

PLEXMET AK series	Dispersing agent that helps the dispersion of oligomers.	A
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ANTI MIGRATION AGENT

SINERGIL BT N	Anti migration agent for padding bath of thermosol dyeing.	A
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REDUCING AGENTS

REDOXONE FPW	Reducing agent in powder form, recommended in alkaline condition.	ND
REDOXONE PRINT	Reducing agent in liquid form, usable also in acid conditions (during the cooling phase).	ND
REDOXONE R 10	Liquid detergent that increases the maintenance of the reducing potential (continuous washing processes).	NI

AFTER DYEING

WASHING AGENTS

ARKAL SG	Soaping agent, highly effective as an oligomer removal agent for the reduction of the clearing bath.	C - NI
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FINISHING

SOFTENERS

FINISH N 46 series	Hydrophilic silicone softener, highly processable, which gives an excellent finishing touch and freshness. Very stable on turbulence.	NI - C
FINISH P 29	Softener that gives a final smooth effect, ideal for raising (fleece).	NI
POLIFINISH PO 40	Lubricant that reduces sewing damage during garment manufacturing, compatible with finishing agent.	NI

RESINS FOR WATERPROOFING

IMBIGEN NRW 3	Special wetting agent to be used in finishing treatments with water repellents. It increases the penetration of the bath in the textile support without altering the performances of the technical product, and increases the stability of the bath by decreasing the "patination" effect of the polymers.	AMF
NOVAGUARD FF PLUS	 Fluorine-free waterproofing resin, which gives good stability to domestic washing. It doesn't require polymerization process.	NI - C
NOVAGUARD GE 6 series	Fluorinated polymer based on C6 chain for water and oil repellent treatments.	NI - C



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