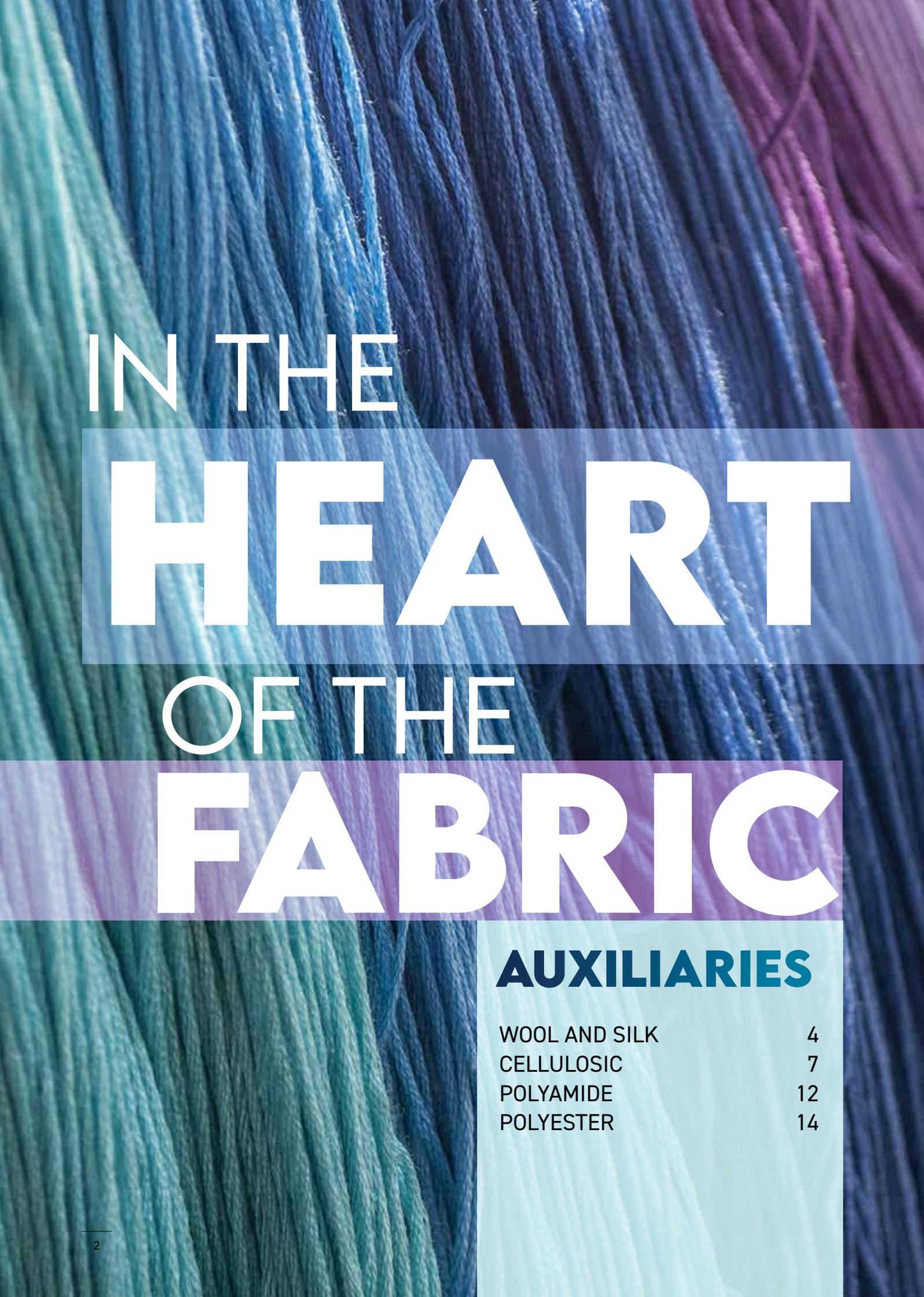




AUXILIARIES



ACHITEXMINERVA



IN THE

**HEART**

OF THE

**FABRIC**

## **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

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

#### ROPE MARK INHIBITORS

<b>TEXLUBE EXTRA series</b>	 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

<b>ACHITEGAL A 12</b>	Leveling agent with dispersing properties that prevents irregular dyeing, with excellent affinity for both dyes and fiber.	NI - C
<b>ACHITEGAL C 50 CONC</b>	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
<b>ACHITINA F series</b>	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
<b>SETALAN 592 LIQ</b>	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
<b>SETALAN LT</b>	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

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

#### ACID DONORS

<b>POLIACID GS series</b>	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

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

### FIXING AGENT

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

## FINISHING

### SOFTENERS

<b>ACHITSOFT TE</b>	Softener suitable for the reconditioning of wool and for a partial reconstruction of the fat refill as an alternative to natural lanolin.	NI - C
<b>FINISH 36 series</b>	Finishing agent that increases elasticity and providing a very soft touch.	NI - C
<b>FINISH N 46 series</b>	Hydrophilic silicone softener, highly processable, which gives an excellent finishing touch and freshness. Very stable on turbulence.	NI - C
<b>FINISH S 50 series</b>	Silicone softener which gives a very smooth effect and silk touch.	NI - C
<b>FINISH TCF series</b>	 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
<b>FINISH VP 4 NEW</b>	Finishing agent that gives to the treated article anti-felting and anti-pilling properties. Suitable for both fabrics and garments.	A
<b>FINISH VS</b>	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
<b>POLIFINISH PO 40</b>	Lubricant that reduces sewing damage during garment manufacturing, compatible with finishing agent.	NI
<b>STABILAN GRA CONC</b>	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
<b>STABILAN MM</b>	Unique product for the "arostretch " treatment that allows to obtain comfort effects on wool fabrics.	ND

### FULLING AGENTS

<b>ECOPON LP series</b>	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
<b>NOVAFULL ST</b>	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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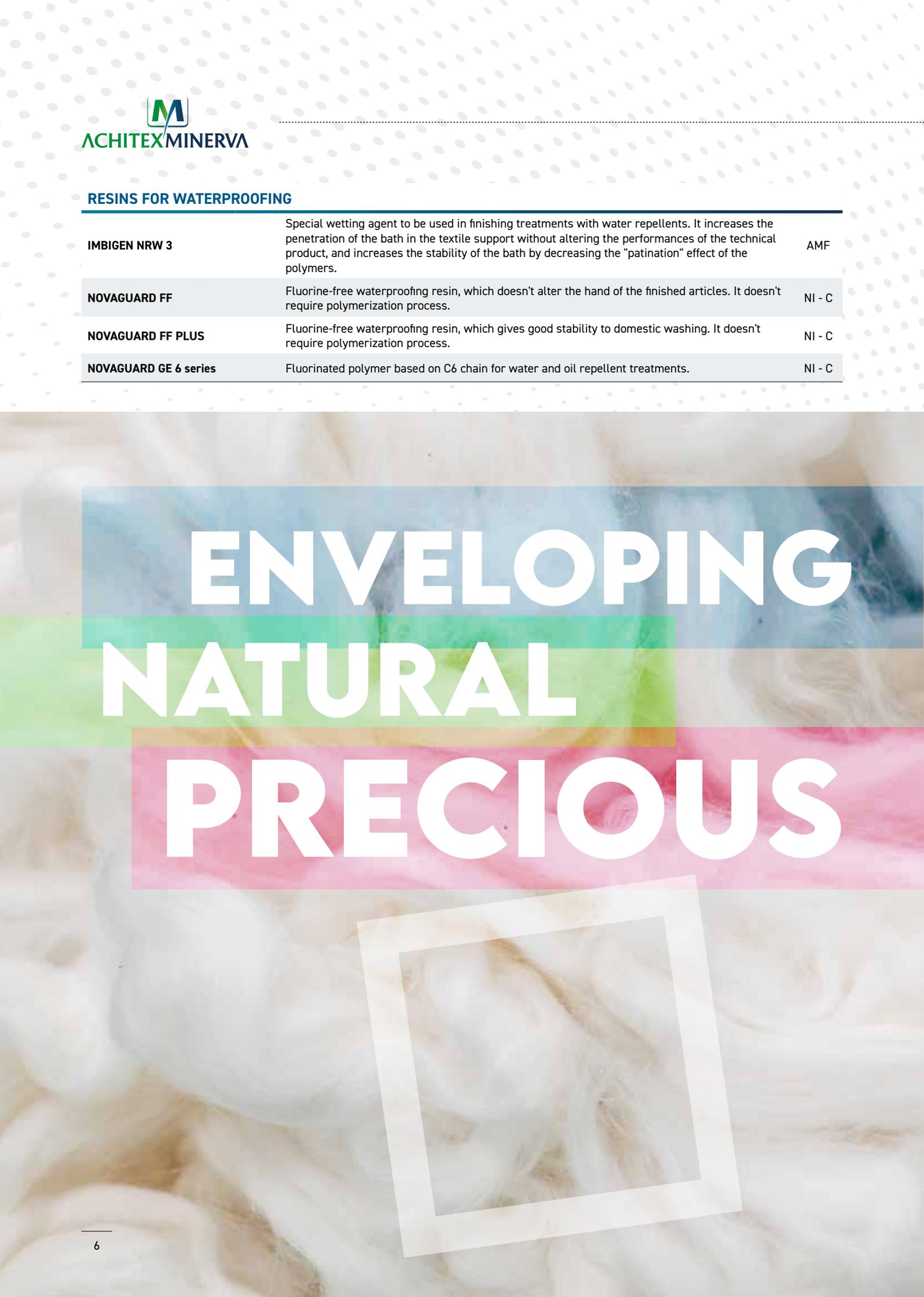


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**RESINS FOR WATERPROOFING**

<b>IMBIGEN NRW 3</b>	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
<b>NOVAGUARD FF</b>	Fluorine-free waterproofing resin, which doesn't alter the hand of the finished articles. It doesn't require polymerization process.	NI - C
<b>NOVAGUARD FF PLUS</b>	Fluorine-free waterproofing resin, which gives good stability to domestic washing. It doesn't require polymerization process.	NI - C
<b>NOVAGUARD GE 6 series</b>	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

<b>ECOPON ONE</b>	 	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

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

#### DETERGENTS

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

#### SEQUESTERING AGENTS

<b>BIPLEX K</b>		Natural sequestering agent to catch iron and copper in alkaline conditions, recommended above all in preparation.	ND
<b>PLEXMET KDM</b>		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
<b>PLEXMET SRN</b>		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

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

## CATALYST

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

<b>ACHITFLOW L</b>	Rope mark inhibitor which gives a final soft touch. Multipurpose for fibers and machinery.	NI
<b>NOVALUBE AM</b>	Rope mark inhibitor. Multipurpose for fibers and machinery.	ND
<b>TEXLUBE EXTRA series</b>	 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

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

## MERCERIZING AGENTS

<b>ANTIFOAM MF</b>	Defoamer for mercerization processes.	A
<b>MERCERIZING MF</b>	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

<b>REDOXONE OK LIQ</b>	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

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

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



## DYEING

### WETTING AGENTS

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

### LEVELING AGENTS AND CARRIERS

<b>ACHITEGAL A</b>	Levelling agent for vat dyes, suitable for improving the discharge of dyeing.	C
<b>ACHITEGAL DRT</b>	Levelling agent for direct and vat dyes.	A - NI
<b>ACHITINA F series</b>	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
<b>SINERGIL FA</b>	Auxiliary for dyeing pigments with anti-migration and wetting function. Low foam formation and good anti-static effect.	

### DISPERSING AGENTS

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

### ALKALI BUFFERS

<b>KALTEX A</b>	Alkali buffer agent for reactive dyes.	ND
<b>KALTEX C</b>	Alkali buffer agent for reactive dyes, especially for black.	ND

### ANTI REDUCING AGENT

<b>OXITON ECO</b>	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

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



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## AFTER DYEING

### NEUTRALIZER AGENT

<b>POLIACID ESP</b>	Acid agent and buffer for neutralization after bleaching or in finishing processes.	ND
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### WASHING AGENTS

<b>ACHITEGAL A</b>	Washing agent after reactive and vat dyeing; reserving agent during the discharge phase.	C
<b>ACHITEGAL C 50 CONC</b>	 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
<b>LAVAPRINT MF</b>	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
<b>LAVAPRINT PC</b>	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
<b>LAVAPRINT STP</b>	Washing agent after reactive and dispers dyeing/printing, for continuous systems.	A
<b>PLEXMET BIO series</b>	 Bio-degradable acrylic sugar copolymer, with excellent dispersing and sequestering behavior, usable in dyeing without altering color tones.	A
<b>PLEXMET SRN</b>	Dispersing and sequestering agent.	A

### FIXING AGENTS

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





## FINISHING

### SOFTENERS

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

### BIO - POLISH PRODUCTS

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

### RESINS FOR DIMENSIONAL STABILITY

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

### RESINS FOR WATERPROOFING

<b>IMBIGEN NRW 3</b>		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
<b>NOVAGUARD FF</b>		Fluorine-free waterproofing resin, which doesn't alter the hand of the finished articles. It doesn't require polymerization process.	NI - C
<b>NOVAGUARD FF PLUS</b>		Fluorine-free waterproofing resin, which gives good stability to domestic washing. It doesn't require polymerization process.	NI - C
<b>NOVAGUARD GE 6 series</b>		Fluorinated polymer based on C6 chain for water- and oil-repellent treatments.	NI - C



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Energy saving

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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

<b>EMULTERGE OIL series</b>	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

<b>TEXTUBE EXTRA series</b>	 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
<b>TEXTUBE IDRO</b>	Special anti crease/softener, it reduces the marks and gives a very soft hand (like a softener) and hydrofilia to the material.	AMF
<b>TEXTUBE TF CONC</b>	Rope inhibitors and hydrophilicizing for seamless in Polyamide.	NI

### DYEING

#### LEVELLING AGENTS AND CARRIERS

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

#### ACID DONORS

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

### AFTER DYEING

#### WASHING AGENTS

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

#### FIXING AGENTS

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



## FINISHING

### SOFTENERS

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

## DIGITAL PRE-TREATMENTS

### PRIMERS FOR ACID DYES INKS

<b>MINERPRIMER INK A</b>	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
<b>MINERPRIMER INK A PA</b>	Ready-to-use version of MINERPRIMER INK A	ND



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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

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

#### ROPE MARK INHIBITORS

<b>NOVALUBE AM</b>	General anti-crease product.	ND
<b>TEXLUBE EXTRA series</b>	 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

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

#### DISPERSING AGENTS

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

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



## DEFOAMING AGENTS

<b>DEFOAMER FC J series</b>	Defoaming agent stable at high temperature, under pressure.	
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## DISPERSING AGENTS

<b>PLEXMET AK series</b>	Dispersing agent that helps the dispersion of oligomers.	A
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## ANTI MIGRATION AGENT

<b>SINERGIL BT N</b>	Anti migration agent for padding bath of thermosol dyeing.	A
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## REDUCING AGENTS

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

## AFTER DYEING

### WASHING AGENTS

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

### SOFTENERS

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

## RESINS FOR WATERPROOFING

<b>IMBIGEN NRW 3</b>	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
<b>NOVAGUARD FF PLUS</b>	 Fluorine-free waterproofing resin, which gives good stability to domestic washing. It doesn't require polymerization process.	NI - C
<b>NOVAGUARD GE 6 series</b>	Fluorinated polymer based on C6 chain for water and oil repellent treatments.	NI - C



Check the updated certifications



Top of range



Energy saving

<b>A:</b> Anionic	<b>NI:</b> Not Ionic	<b>ND:</b> Not Detected	<b>AMF:</b> Amphoteric	<b>C:</b> Cationic
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# ACHITEX MINERVA

**ACHITEX MINERVA GROUP**

[info@achitexminerva.com](mailto:info@achitexminerva.com)

[www.achitexminerva.com](http://www.achitexminerva.com)

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