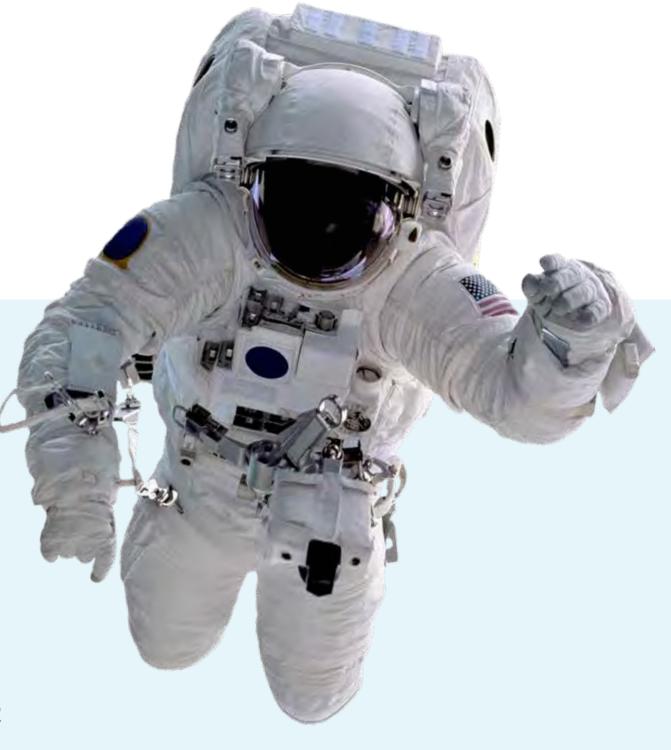


## PRODUCT list



AUXILIARIES FOR THE TEXTILE INDUSTRY



YOUR ADVANCED SOLUTIONS PARTNER



Polyester fiber



Cellulosic fiber



Polyamide fiber



Wool fiber



Finishing agents



Traditional printing



Technical textiles



Denim articles

## **TABLE OF CONTENTS**

■ PRODUCTS FOR POLYESTER FIBER		p 5
Pretreatment	Prote®	p 6
Dyeing	Prote®	p 7
■ PRODUCTS FOR CELLULOSIC FIBER		p 9
Pretreatment	Prote®	p 10
Dyeing	Prote®	p 11
■ PRODUCTS FOR POLYAMIDE FIBER		p 14
Pretreatment	Prote®	p 15
Dyeing	<b>D</b>	p 16
■ PRODUCTS FOR WOOL FIBER		p 18
Pretreatment	Prote®	p 19
Dyeing	Prote®	p 19
■ FINISHING AGENTS		p 21
Resins	Prote®	p 22
Hydrophilising agents	Prote®	p 22
Handle modifiers		p 23
Elasticity control		p 23
Odour masks	Masquodor® / Plastodor	p 23
Anti-slip	Prote® Sil	p 23
Softeners		p 24
Fire retardants		p 26
Moisture management agent	Prote® Care	p 26
Water and oil repellents	Dryol®	p 26
■ PRINTING AUXILIARIES / TRADITIONNAL PRINTING		p 27
■ PRODUCTS FOR TECHNICAL TEXTILES		p 30
■ PRODUCTS FOR "DENIM" ARTICLES		p 33

### PRODUCT LIST FOR TEXTILES AUXILIARIES

Oil and water repellents De Strative Dye Fixative PROTE®-FIX Stabilizer, pH buffer PROTE®-STAB Levelling and anti-migration agents PROTE®-STAB Dispersing and sequestering agents PROTE®-SPERSE Fire retardant PROTE®-SPERSE Fire retardant PROTE®-SPERSE Fire retardant PROTE®-FOAM Wetting and deaerating agents PROTE®-FOAM Wetting and deaerating agents PROTE®-FOAM Antifoams PROTE®-FOAM PROTE®-FOAM Antistatic agents PROTE®-STAT Corrosion inhibitors PROTE®-STAT Corrosion inhibitors PROTE®-STAT Corrosion inhibitors PROTE®-STAT Corrosion inhibitors PROTE®-STRIP PROTE®-STRIP PROTE®-STRIP Printing auxiliaries PROTE®-STRIP PROTE®-STRIP PROTE®-STRIP Digital Printing PROTE®-STRING Digital Printing PROTE®-SPRING Digital Printing PROTE®-SPRING Digital Printing PROTE®-SPRING Digital Printing PROTE®-SPRING PROTE®-SPRING PROTE®-SPRING Digital Printing PROTE®-SPRING PROTE®-SPRING PROTE®-SPRING PROTE®-SET AM ASQUODOR® PROTE®-SET AM STYRENE ACRYLIC COPOLYMER EMULSION ACRYLIC / ACRYLONITRILE COPOLYMER PROTE®-SET AMS PROTE®-SET AMS PROTE®-SET AMS PROTE®-SET M PROTE®-	AUXILIARIES FOR TEXTILES	
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Softener	Digital Printing	PROTE®-PRINT
■ RESINS, BINDERS, THICKENERS: PROTE®-SET   ACRYLIC COPOLYMER EMULSION	Softener	REXAMINE®
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POLYURETHANE IN EMULSION PROTE®-SET R	MELAMINE	PROTE®-SET M
DMDHEUPROTE®-SET V		
	DMDHEU	PROTE®-SET V



## PRODUCTS FOR POLYESTER FIBER

#### PRETREATMENT

DETERGENTS, WETTING AGENTS		
PROTE®-PON DBD CONC	Wetting detergent and dispersing agent. Used in desizing and dyeing of synthetic and cotton blends.	
PROTE®-SOL AT 2	Deaerating agent. Increases the effectiveness of wetting agents.	
PROTE®-PON XC	High concentrated scouring agent for the pre-treatment of synthetic fibres and their blends. Can be diluted in all proportions in cold water and is particularly recommended for automatic dosing systems.	
SEQUESTERING AGENTS, PH NEUTRALIZER, PEROXIDE KILLERS		
PROTE®-SPERSE PDC	Excellent nitrogen-free sequestering agent against calcium magnesium and heavy metal ions like iron.  Stable to high temperature and effective over a wide pH range. Particularly advised with reactive dyes.	





## PRODUCTS FOR POLYESTER FIBER

WETTING AGENTS, DI	SPERSING AND PROTECTIVE COLLOIDS	
PROTE®-SOL AT 2	Deaerating agent. Boosts the wetting agents action.	
PROTE®-SPERSE A 440	Dispersing and sequestering agent.	
PROTE®-SOL DSL 400	Very high dispersing power. Non-wetting, non-foaming, stable at high temperature.	
PROTE®-SOL 711	Powder form of the PROTE®-SOL DSL 400.	
PROTE®-SPERSE PDC	Excellent nitrogen-free sequestering agent against calcium magnesium and heavy metal ions like iron. Stable to high temperature and effective over a wide pH range. Particularly advised for reactive dyes.	
LUBRICANTS - ANTICREASE, ANTIFOAMS		
PROTE®-LUBE ACE	Highly efficient anti-crease agent for all kinds of textile. Reduces at the minimum both the creasing and abrasion phenomena thanks to its fibre to fibre and fibre to metal lubricant properties.	
PROTE®-LUBE BAL G	Anticrease lubricant used in dyeing and in all hot treatments for synthetics and blends. Non-foaming on «JET» equipment.	
PROTE®-FOAM 920 SE	Silicone based antifoam for exhaust dyeing applications. Very efficient.	
PROTE®-FOAM 9138 SE	Fluid silicone based anti-foam presented at an acid pH. Stable in electrolytes at all temperatures and effective over a wide pH range.	
PROTE®-FOAM 7143 HE-V	Vegetal oil antifoam, silicone-free.	



## PRODUCTS FOR POLYESTER FIBER

<u> </u>	GRATING AND ANTIOLIGOMER AGENTS
PROTE®-GAL EDR	Reactive or direct dye bath additive. Provides excellent "equalizing" and "dye compatibilising" properties for polyester/cotton blends.
PROTE®-GAL LD 950	Levelling and dispersing agent. Induces a regularity during the exhaustion of the disperse dyes. Stabilizes the dyeing bath dispersion and reduces the oligomers.
PROTE®-GAL LD 971	Levelling and migrating agent for polyester and their blends dyes. Very effective with disperse dyes at high temperature conditions.
PROTE®-PON OR	Reduces oligomer contamination in the machine. Cleans any disperse dyes residues.
ANTISTATIC AGENTS	, SOAPING AGENTS
PROTE®-STAT AH 880	Antistatic and hydrophilizing agent. Can be applied by exhaustion.
PROTE®-SPERSE A 440	Dispersing and sequestering agent.
PROTE®-SPERSE WS	Soaping agent. Avoids the white stripes of woven or knitted fabrics dyes, due to the unfixed dyes staining
MACHINE CLEANER,	ANTI-YELLOWING AGENTS
PROTE®-PON MCO	Solvent-free foaming and biodegradable machine cleaner.
PROTE®-STAB AYP-LF	Prevents the «phenolic yellowing» which can occur when goods are stored. Very low level of foam, even in water treatment system.
PROTE®-STAB TY 560	Avoids the yellowing of polyester, polyamide and elastane fibres blends due to high tempreature treatment. Suitable for pre-setting, post-setting or moulding processes.

#### PRETREATMENT

DETERGENTS, WETTING AGENTS		
PROTE®-PON DBD CONC	Wetting detergent and dispersing agent. Used in desizing and dyeing of synthetic and cotton blends.	
PROTE®-PON 9 TDK	Detergent displaying excellent emulsifying properties. Easy to rinse out, ideal for the medical and hygienic fabrics.	
PROTE®-SOL ANF	Very fast-acting non-foaming wetting agent. Deaerating effect. Stable in alkaline medium.	
PROTE®-SOL AT 2	Deaerating agent. Increases the effectiveness of wetting agents.	
<b>SEQUESTERING AGI</b>	ENTS CONTROL OF THE PROPERTY O	
PROTE®-PLEX EL 40	Solution of EDTA.	
PROTE®-PLEX GHN 40	Biodegradable. High sequestering power especially towards iron. Excellent stability in alkaline medium.	
PROTE®-SPERSE A 440	Dispersing, sequestering and antiredepositing agent. Fluidizes starches. Eases PVA removal. Improves whiteness of pad bleached materials.	
PROTE®-SPERSE PDC	Excellent nitrogen-free sequestering agent against calcium magnesium and heavy metal ions like iron.  Stable to high temperature and effective over a wide pH range. Particularly advised with reactive dyes	
STABILIZER, PH NEUTRALIZER, PEROXIDE KILLER		
PROTE®-STAB ASL	Stabilizer, decomposition regulator for peroxides. Avoids the use of silicates. Ensures a better evenness and a better whiteness level. Suitable for the various long bath and continuous processes.	
PROTE®-STAB CPB	Stabilizer of Hydrogen-peroxide for cold pad batch bleaching. Allows ideal decomposition of peroxide over 12h at room temperature.	
PROTE®-STAB HCS	Compatibilizer, pH buffer. Avoids the problems of stains.	





PROTE®-SOL ANF	Very fast-acting non-foaming wetting agent. Deaerating effect.
PROTE®-SOL AT 2	Deaerating agent. Boosts the wetting agents action.
PROTE®-SPERSE A 340	Sequestering and dispersing agent for reactive and vat dyes.
PROTE®-SPERSE RD-BF	Excellent buffer, sequestrant, leveller and bicarbonate quenching properties.
PROTE®-SPERSE A 440	Dispersing and sequestering agent.
PROTE®-SOL DSL 400	Very high dispersing power. Non-wetting, non-foaming, stable at high temperature.
PROTE®-SOL 711	Powder form of the PROTE®-SOL DSL 400.
PROTE®-SPERSE PDC	Excellent nitrogen-free sequestering agent against calcium magnesium and heavy metal ions like iron. Stable to high temperature and effective over a wide pH range. Particularly advised for reactive dyes.
SEQUESTERING AGE	NTS
PROTE®-GAL EDR	Reactive or direct dye bath additive. Provides excellent "equalizing" and "dye compatibilising" properties for polyester/cotton blends
PROTE®-GAL LD 950	Levelling and dispersing agent. Induces a regularity during the exhaustion of the disperse dyes. Stabilizes the dyeing bath dispersion and reduces the oligomers.
PROTE®-GAL LD 971	Levelling and migrating agent for polyester and their blends dyes. Very effective with disperse dyes at high temperature conditions.
PROTE®-PON OR	Reduces oligomer contamination in the machine. Cleans any disperse dyes residues.

LUBRICANTS - ANTICREASE, ANTIFOAMS	
PROTE®-LUBE ACE	Highly efficient anti-crease agent for all kinds of textile. Reduces at the minimum both the creasing and abrasion phenomena thanks to its fibre to fibre and fibre to metal lubricant properties.
PROTE®-LUBE BAL G	Anticrease lubricant used in dyeing and in all hot treatments for synthetics and blends. Non-foaming on «JET» equipment.
PROTE®-FOAM 920 SE	Silicone based antifoam for exhaust dyeing applications. Very efficient.
PROTE®-FOAM 9138 SE	Buffer, sequestrant and leveller. Excellent bicarbonate quenching properties.
PROTE®-FOAM 7143 HE-V	Fluid silicone based anti-foam presented at an acid pH. Stable in electrolytes at all temperatures and effective over a wide pH range.
PROTE®-SOL DSL 400	Vegetal oil antifoam, silicone-free.
ANTISTATIC AGENTS,	SOAPING AGENTS
PROTE®-SPERSE RDS	Excellent soaping agent. Outstanding anti-redepositing property. Enables a faster or a lower temperature process.
PROTE®-SPERSE A 440	Dispersing and sequestering agent.
PROTE®-SPERSE WS	Soaping agent.





DYE FIXATIVE, MACHI	NE CLEANER, ANTI-YELLOWING AGENTS
PROTE®-FIX WF	Formaldehyde-free fixing agent for direct and reactive dyes. No or slight influence on the shades.
PROTE®-FIX FF 335	Formaldehyde-free fixing agent for direct and reactive dyes. Highly effective
PROTE®-FIX DPE 994	Fixing agent for exhaust dyeing of pigments.
PROTE®-FIX WF-G (NEW)	Fixing agent for direct and reactive dyes. GOTs 5.0
PROTE®-CAT GDD 370	Cationization agent. Improves the direct dyes light fastness. Ideal for our vintage look processes.
PROTE®-STRIP 847	Reactive dye fixative stripping agent
PROTE®-PON MCO	Solvent-free foaming and biodegradable machine cleaner.
PROTE®-STAB CEI	Strengthening and colour-fixing agent. Ideal for indigo dyes.
PROTE®-STAB AYP LF	Prevents the «phenolic yellowing» which can occur when goods are stored.
PROTE®-STAB TY 560	Avoids the yellowing of polyester, polyamide and elastane fibres blends due to high tempreature treatment. Suitable for pre-setting, post-setting or moulding processes.
PROTE®-STAB AFR	Alkali buffer. Special product to control the fixation of reactive dyes.
PROTE®-FIX WF-H (NEW)	Fixing agent for reactive and direct dyes. No effect on light fastness.



## PRODUCTS FOR POLYAMIDE FIBER

#### PRETRATMENT

DETERGENTS, WETTING AGENTS	
PROTE®-PON DBD CONC	Wetting detergent and dispersing agent. Used in desizing and dyeing of synthetic and cotton blends.
PROTE®-SOL ANF	Very fast-acting non-foaming wetting agent. Deaerating effect. Stable in alkaline medium.
PROTE®-SOL AT 2	Deaerating agent. Increases the effectiveness of wetting agents.



#### PRODUCTS FOR POLYAMIDE FIBER

#### DYEING

#### **WETTING AGENTS, DISPERSING AND PROTECTIVE COLLOIDS**

PROTE®-SOL AT 2

Deaerating agent.
Boosts the wetting agents action.

**PROTE®-SPERSE A 440** Dispersing and sequestering agent.

#### **LUBRICANTS - ANTICREASE, ANTIFOAMS**

PROTE®-LUBE BAL G

Highly efficient anti-crease agent for all kinds of textile.

Reduces at the minimum both the creasing and abrasion phenomena thanks to its fibre to fibre and fibre to metal lubricant properties.

Anticrease lubricant used in dyeing and in all hot treatments for synthetics and blends.

Non-foaming on «JET» equipment.

PROTE®-FOAM 920 SE

Silicone based antifoam for exhaust dyeing applications.

Very efficient.

Fluid silicone based anti-foam presented at an acid pH.

Stable in electrolytes at all temperatures and effective over a wide pH range.

**PROTE®-FOAM 7143 HE-V** Vegetal oil antifoam, silicone-free.

#### **LEVELLING AGENTS, ANTIMIGRATING AGENTS**

PROTE®-GAL LA

Biodegradable agent, achieving dyeing evenness with acid and metallized dyes.
No effect on fastness levels. Non foaming.

PROTE®-GAL AIC

Bi-functional levelling agent. Gets affinity with both fibres and dyestuffs.

PROTE®-GAL H 43

Highly effective anti-migration agent, applied at acid pH (4-4.5).
Especially recommended for light articles. Requires the use of an infra-red dryer.





## PRODUCTS FOR POLYAMIDE FIBER

ANTISTATIC AGENTS	S, SOAPING AGENTS
PROTE®-STAT AH 880	Antistatic and hydrophilizing agent. Can be applied by exhaustion.
PROTE®-SPERSE A 440	Dispersing and sequestering agent
<b>DYE FIXATIVE, MACH</b>	HINE CLEANER, ANTI-YELLOWING AGENTS
PROTE®-FIX PA 211	Reserve agent for polyamide-wool and polyamide-cotton blends dyes. Improves wet-fastness standards of acid and metal dyes.
PROTE®-FIX PA 210 NEW	Very concentrated fixing agent. Stable in acid medium.
PROTE®-PON MCO	Solvent-free foaming and biodegradable machine cleaner.
PROTE®-STAB AYP-LF	Prevents the «phenolic yellowing» which can occur when goods are stored. Very low level of foam, even in water treatment system.
PROTE®-STAB TY 560	Avoids the yellowing of polyester, polyamide and elastane fibres blends due to high tempreature treatment. Suitable for pre-setting, post-setting or moulding processes.



## **PRODUCTS FOR WOOL FIBER**

#### PRETREATMENT

DETERGENTS, WETTING AGENTS	
PROTE®-PON DBD CONC	Wetting detergent and dispersing agent. Used in desizing and dyeing of synthetic and cotton blends.
PROTE®-SOL ANF	Very fast-acting non-foaming wetting agent. Deaerating effect. Stable in alkaline medium.
PROTE®-SOL AT 2	Deaerating agent. Increases the effectiveness of wetting agents.

	ISPERSING AND PROTECTIVE COLLOIDS
PROTE®-SOL AT 2	Deaerating agent. Boosts the wetting agents action.
PROTE®-SPERSE A 440	Dispersing and sequestering agent.
LUBRICANTS - ANTIC	REASE, ANTIFOAMS
PROTE®-LUBE ACE	Highly efficient anti-crease agent for all kinds of textile. Reduces at the minimum both the creasing and abrasion phenomena thanks to its fibre to fibre and fibre to metal lubricant properties.
PROTE®-LUBE BAL G	Anticrease lubricant used in dyeing and in all hot treatments for synthetics and blends. Non-foaming on «JET» equipment.
PROTE®-FOAM 920 SE	Silicone based antifoam for exhaust dyeing applications. Very efficient.
PROTE®-FOAM 9138 SE	Fluid silicone based anti-foam presented at an acid pH. Stable in electrolytes at all temperatures and effective over a wide pH range.
PROTE®-FOAM 7143 HE-V	Vegetal oil antifoam, silicone-free.





## PRODUCTS FOR WOOL FIBER

ANTIMIGRATING AGENTS, ANTIOLIGOMER
Bi-functional levelling agent. Gets affinity with both fibres and dyestuffs.
Highly effective anti-migration agent, applied at acid pH (4-4.5). Especially recommended for light articles. Requires the use of an infra-red dryer.
, SOAPING AGENTS
Antistatic and hydrophilizing agent. Can be applied by exhaustion.
Dispersing and sequestering agent.
INE CLEANER, ANTI-YELLOWING AGENTS
Reserve agent for polyamide-wool and polyamide-cotton blends dyes. Improves wet-fastness standards of acid and metal dyes.
Very concentrated fixing agent. Stable in acid medium.
Solvent-free foaming and biodegradable machine cleaner.
Prevents the «phenolic yellowing» which can occur when goods are stored. Very low level of foam, even in water treatment system.



## **FINISHING AGENTS**

RESINS		APPLICATIONS
PROTE®-SET R 920 NEW	Micro emulsion of polyurethane reactive. Antipilling or snagging agent. Improves the dimensional stability.	All
PROTE®-SET R 908	Polyurethane emulsion. Provides a glossy film and a high level of abrasion resistance.	All
PROTE®-SET M 3 M LF	Modified melamine-formaldehyde resin with a very low formaldehyde content. Reinforces latex foams, binds non-woven substrates, cellulose wool Is wrinkle-resistant and wash-and-wear finishing.	Cellulosic
PROTE®-SET PI	Reactive precatalysed crease resistant resin. Very low level of free formaldehyde.	All
PROTE®-SET E 067 E	Epoxy resin with a very high molecular weight.	All
PROTE®-SET VLF 241	Reactive precatalysed crease-resistant resin. Very low level of free formaldehyde.	Cellulosic
PROTE®-SET VLF 340	DMDHEU crease-resistant resin with a low free formaldehyde content. Very good dimensional stability. Excellent preservation of the fabrics softness and of whites.	Cellulosic
<b>HYDROPHILIZING AGE</b>	INTS	APPLICATIONS
PROTE®-SET FAI	Multipurpose finishing agent. Confers outstanding hydrophilic, antistatic and abrasion resistance properties, whose are permanent on polyamide. On cellulosic fibers, it confers a durable soil release and an easy wash properties.	All
PROTE®-CARE H-PE EXTRA	Sustainable with an excellent hydrophilicity. Good moisture transportation. Soil release properties. Antistatic effects. Modification of the handle. Can be used by padding or exhaustion. Good compatibility with a large range of products.	Polyester





## **FINISHING AGENTS**

HANDLE MODIFIERS		APPLICATIONS
PROTE®-SET AM 219 RG-N	New generation of cationic copolymer. Very soft, very stable.	All
PROTE®-SET AM 270 R	Acrylic copolymer in aqueous dispersion. Can be cross-linked at low temperature. A synthetic binder for coating paper.	All
PROTE®-SET AM 185 RS	Acrylic copolymer. Gives rather hard films, very resistant to solvents.	All
PROTE®-SET AMN 360 R	Non-ionic acrylic emulsion. Avoids curling of opened knits without impairing handle.	All
PROTE®-SET AMN 317 R	Non-ionic soft acrylic emulsion. Very good adhesion.	All
PROTE®-SET PI	Multipurpose product. Provides a strong long-lasting hydrophilic effect	All
PROTE®-SET AMS 128 R	Soft and supple copolymer emulsion resin. Solvent resistant.	Emulsion
<b>ELASTICITY CONTROL</b>		APPLICATIONS
PROTE®-SPRING 930	Durable finishing agent increasing stretch of knitted fabrics. Increases significantly the elasticity, softness and handle of treated cellulosic fabrics.	All
PROTE®-SPRING 958	Finishing agent which increases the stretch on knitted textiles. Gives excellent elasticity, soft handle and hydrophilicity. Is Non-Yellowing and resistant to Scorching.	All
ODOUR MASKS		APPLICATIONS
MASQUODOR®	A range of masking agents to cover fish, H2S, solvent smells.	All
PLASTODOR®	Fragances for plastics .	All
ANTI-SLIP		APPLICATIONS
PROTE®-SIL C 105	Anti-slip and anti-fray agent Provides a soft handle for all fibre types.	All

#### THE REXAMINE NOMENCLATURE

**REXAMINE® CS9185HL** ► Ionicity: **C** cationic, **N** non-ionic, A anionic, M amphoteric Chemical nature: **S** silicone **P** polyethylen **E** ester **M** amide ester Ease of dilution in water: 9 immediate **1** difficult Side effect: A antistatic effect **S** stain release **H** hydrophilic effect I hydrophilic impact **C** resin compatibility **E** fat sizing **F** plasticizer **G** easer sewing **L** sizing **R** reactive Aspect: L liquid **P** pasty **S** solid **E** flakes **M** micro-emulsion





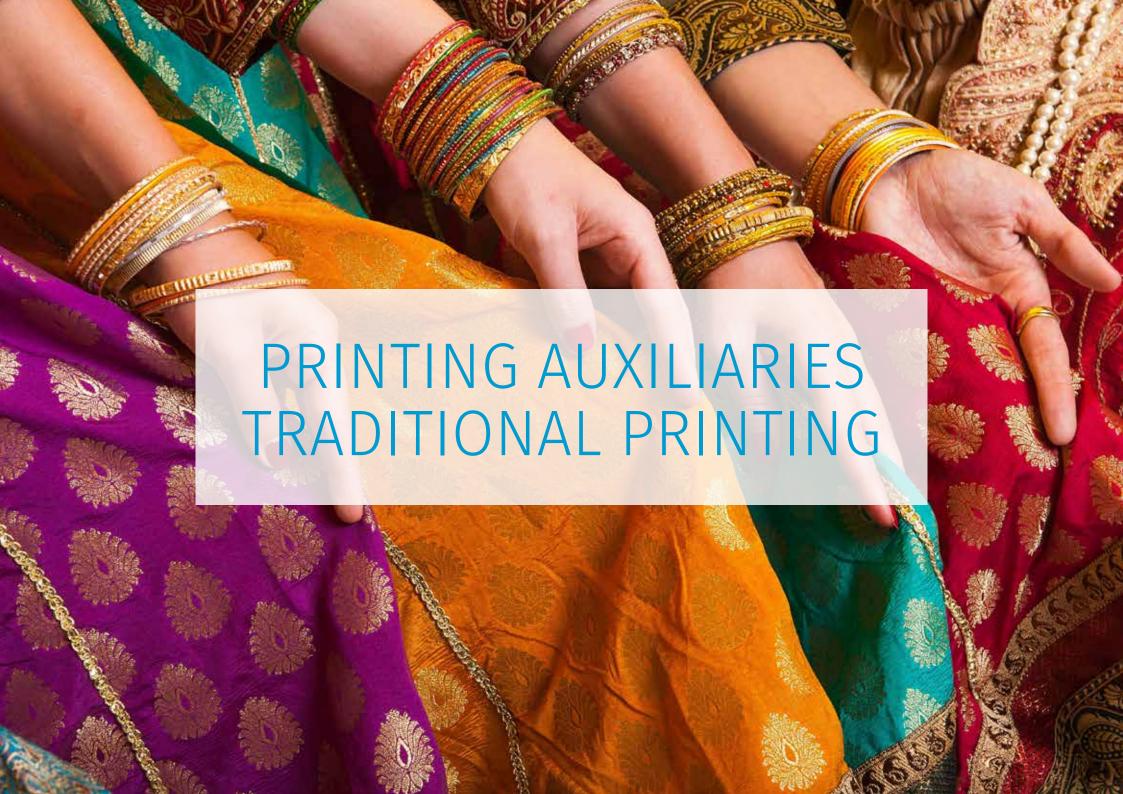
## **FINISHING AGENTS**

SOFTENERS		APPLICATIONS
REXAMINE® NSF 901 HE	Silicone-free softener. Gives however a silicone handle.	All
REXAMINE® CP 9102 AL	A three-component product. Full, smooth handle, antistatic. Does not affect whites. Application: exhaustion, padder, licking-roller	All
REXAMINE® CS 9185 HL	Durable hydrophilic softener. Gives enhanced comfort, suppleness and elasticity.	All
REXAMINE® CS 9195 HL	Modified polysiloxane micro-emulsion. Non yellowing and hydrophilic agent for knitted and woven fabric and their blends.	All
REXAMINE® NS 9148 RL	Single-component silicone elastomer. Does not affect whites. Exceptionally soft, smooth handle on many articles. Improves the stability and elasticity of knits	Cellulosic
REXAMINE® NP 9159 GL	Non-ionic high melting point polyethylene based. Improves abrasion and tear resistance. Recommended for "easy care" finishes.	Cellulosic
REXAMINE® NP 912 GL	Non-ionic polyethylene based. Improves abrasion and tear resistance	All
REXAMINE® H-PU	Durable hydrophilic softener. Gives enhanced comfort, suppleness and elasticity.	Polyester and cellulosic
REXAMINE® CS 988 GL	Modified reactive silicone based. Recommended on delicate lycra blends	All
REXAMINE® CS 9191 GL	Provides an exceptionally soft and silky feel. Improves anti-rid and anti-creases performances. Improves elasticity of knitwears and improves dimensional stability.	All
REXAMINE® CP 9170 AL	Imparts a soft and smooth handle. Can be used by padding, licking or exhaustion processes.	Cellulosic and their blends
REXAMINE® CP 9194 AL	Three component softening agent for finishing natural and synthetic fibres.	Cellulosic and their blends



## **FINISHING AGENTS**

FIRE RETARDANTS		APPLICATIONS
PROTE®-NYL NP 2720 S	Borate and halogen free. Non permanent and non-corrosive. Specially developed for cellulosic fibres.	Cellulosic
PROTE®-NYL SN 2017 S	Halogen free and antimony-free. Compatible with acrylic and other binders. Good corrosion resistance. No yellowing and no anionic emissions.	Cellulosic
PROTE®-NYL BN 5724 S	Confers very high flame retardant properties on all fibres, especially synthetic fibres.  Very easy to apply. Good fastness with regard to solvents. Nonpermanent.	Cellulosic and polyester
PROTE® NY SNP 1813 S	Cost competitive flame proof agent for cellulosic fibers.	Cellulosic
MOISTURE MANAGEM	IENT AGENT	APPLICATIONS
PROTE®-CARE H-PA	Excellent absorbency and a good hydrophilicity. Good moisture properties. Polyvalent agent, it can be used on synthetic and cellulosic fibres. Good antistatic effect. Used by padding or exhaustion. Non ionic, it has a good compatibility with a large range of finishing products.	Polyamide
PROTE®-CARE HPE EXTRA	Durable finishing agent for polyester fibres. Increases significantly the textile comfort: hydrophilicity, antistatic, soft handle. Can be used by padding or exhaustion. Good compatibility with a large range of products	Polyester and their blends
<b>WATER AND OIL REPE</b>	LLENTS	APPLICATIONS
DRYOL® SR	Long lasting silicone water repellent. High level of dry cleaning resistance.	All
DRYOL® FIX 169 NEW	Catalyst for reactive silicone based water repellent emulsions. Non flammable	All
DRYOL® CWO	Fluorine free water and oil repellent. Provides anti-graffiti and anti-tag properties.	All
DRYOL® PAL	Anionic water-repellent, compatible with binders. High Schmerber. Requires heat treatment at 150-160°C. Recommended for coating too.	All
DRYOL® XF	High water repellency. Extender for fluorinated resins.	All



# PRINTING AUXILIARIES TRADITIONAL PRINTING

BINDERS		APPLICATIONS
PROTE®-PRINT BP 96	Soft handle. Good rubbing fastness.	Cellulosic
THICKENERS		APPLICATIONS
PROTE®-SET AM 162 S	Alkali swellable thickener.	Cellulosic
SOFTENERS		APPLICATIONS
PROTE®-PRINT SP 12 GL	Improves softness of acrylic binders.	Cellulosic
ANTIFOAM		APPLICATIONS
PROTE®-PRINT AP 20 SE	Deaerating agent. Prevents the formation of foam.	Cellulosic
FIXING AGENTS		APPLICATIONS
PROTE®-PRINT FP	Improves washing and rubbing fastness levels.	Cellulosic
AGENT IMPROVING T	HE SHARPNESS OF DESIGNS	APPLICATIONS
PROTE®-STAB FCP	Specific polymer. Avoids printing rolls and screen clogging. Improves the reactive printed fabrics contour appearance.	Cellulosic
SOAPINGS AGENTS		APPLICATIONS
PROTE®-SPERSE RDS	Eases the extraction of unfixed dyes.	Cellulosic





# PRINTING AUXILIARIES TRADITIONAL PRINTING

DIGITAL PRINTING	
PROTE®-PRINT D-AF	Silicone-free defoaming agent. Highly effective for use in ink jet printing.
PROTE®-PRINT D-AIR	De-aerating and penetration agent for use in all printing systems. Improves the print levelness.
PROTE®-PRINT D-CES	Anionic softener. Increases exceptionally the knitted printing fabrics elasticity.
PROTE®-PRINT D-HS	Cationic hydrophilic softener. Highly effective for use in ink jet printing.
PROTE®-PRINT D-NPT	Non ionic color yield enhancer for ink jet printing. Improves sharpness and levelness.
PROTE®-PRINT D-NS	Non-anionic softener. Gives a very soft handle and has excellent non-yellowing properties.
PROTE®-PRINT D-PRF	Cationic agent. Improves the pigment ink rubbing fastness.
PROTE®-PRINT D-RWO	Excellent wash-off agent, for ink jet printing with reactive and acid inks.
PROTE®-PRINT DP-50	Anionic color yield enhancer for ink jet printing. Improves sharpness and levelness.



# PRODUCTS FOR TECHNICAL TEXTILES

ACRYLIC BINDERS		APPLICATIONS
PROTE®-SET AM 219 RG-N	Soft cationic copolymer low energy curing emulsion. Excellent resistance to solvents. Can be used on various stages of textiles finishing.	All
PROTE®-SET AM 270 R	Hard cationic acrylic copolymer dispersion. Can be cross-linked at low temperature.	All
PROTE®-SET AM 185 RS	Hard anionic acrylic emulsion.	All
PROTE®-SET AMN 360 R	Medium hard non-ionic acrylic emulsion. Non sticky.	All
PROTE®-SET AM 355 G	Medium hard non-ionic acrylic emulsion. Provides an excellent film alkaline resistance.	All
PROTE®-SET AMN 317 R	Soft non-ionic acrylic emulsion. Very good adhesion.	All
PROTE®-SET AMB 328 G	Soft non-ionic acrylic emulsion. Heat reactive film.	All
PROTE®-SET AMS 128 R	Soft and supple copolymer emulsion resin. Solvent resistant.	Emulsion
PROTE®-SET AM 113 R	Very soft anionic acrylic emulsion.	All
<b>EPOXY BINDERS</b>		APPLICATIONS
PROTE®-SET E	Waterborne epoxy dispersion. Excellent chemical resistance.	All
POLYURETHANE BINDERS		APPLICATIONS
PROTE®-SET R 920	Micro emulsion of polyurethane reactive. Antipilling or snagging agent. Improves the dimensional stability	All
PROTE®-SET R 908	Aliphatic. Flexible. Low VOC.	All
PROTE®-SET AM 355 G  PROTE®-SET AMN 317 R  PROTE®-SET AMB 328 G  PROTE®-SET AMS 128 R  PROTE®-SET AM 113 R  EPOXY BINDERS  PROTE®-SET E  POLYURETHANE BINDER  PROTE®-SET R 920	Medium hard non-ionic acrylic emulsion. Provides an excellent film alkaline resistance.  Soft non-ionic acrylic emulsion. Very good adhesion.  Soft non-ionic acrylic emulsion. Heat reactive film.  Soft and supple copolymer emulsion resin. Solvent resistant.  Very soft anionic acrylic emulsion.  Waterborne epoxy dispersion. Excellent chemical resistance.  S  Micro emulsion of polyurethane reactive. Antipilling or snagging agent. Improves the dimensional stability	All All Emulsion All APPLICATION All APPLICATION All





# PRODUCTS FOR TECHNICAL TEXTILES

THICKENERS		APPLICATIONS
PROTE®-SET AM 167S	Acrylic copolymer. Converts into a viscous aqueous solution when a base is added.	All
PROTE®-SET AM 162 S	Alkali swellable thickener. Pseudo plastic behaviour.	All
PROTE®-SET A 300	Protective colloid thickener.	All
<b>FOAMING AGENT</b>		APPLICATIONS
PROTE®-PON CBF	Foaming agent for coatings used in textile industry. High foaming power with a table and fine foam. Good compatibility with latex compounds.	All



## PRODUCTS FOR "DENIM" ARTICLES

<b>EPOXY BINDERS</b>	
PROTE®-WASH DB	Good wetting + scouring. Low foam. Liquid. Easily diluable.
PROTE®-WASH WLF	Very good wetting. High alkali stability. Liquid. Easily foam. Stable >15° be.
PROTE®-WASH DPA	Very good deaerating. No foam. Penetration accelerator. Easy to handle. Low dosage.
PROTE®-WASH DS	Complexing of Ca, Mg, Fe.

DYEING	
PROTE®-WASH DB	Prevents the affinity of indigo dyes on the white parts of denim garments.
PROTE®-WASH DPA	Very good deaerating. No Foam. Penetration accelerator. Easy to handle. Low dosage.
PROTE®-WASH DS	Complexing of Ca, Mg, Fe.
PROTE®-DYE LRD	Levelling agent for direct or reactive dyes. Easily diluable. Low dosage.

DYEING	
PROTE®-DYE Bi-AL	Bi-active lubricant. Fibre to fibre & fibre to metal.
PROTE®-DYE DFS	Defoamer for general use.
PROTE®-DYE DF-SF	Silicone free defoamer for general use.
PROTE®-DYE RD	Reactive dyestuffs soaping agent. Very efficient. Low dosage.
PROTE®-DYE DFX	Dyes fixing agent. High wet fastnesses. No colour change.
PROTE®-DYE WFI	High wet fastness improver.
PROTE®-DYE AK	Alkaline reactive fixing. Liquid. Easy to use





## PRODUCTS FOR "DENIM" ARTICLES

<b>DYEING ADDITIVE</b>	
PROTE®-DYE AC	Corrosion inhibitor. Easy to use.
PROTE®-DYE CEI	Indigo colour enhancer. Improves dye-fastness during the desizing.
FINITION	
REXAMINE® NS	Good softness. Very easy to use in any process.
REXAMINE® CM	Good softness, full handle, thermostable. Universal softener.
REXAMINE® CS	Excellent softness and handle, no yellowing, hydrophilic.
SPECIAL EFFECTS	
PROTE®-SET ELI	Elasticity improver.
PROTE®-SET VLF Plus	Very low formaldehyde pre-catalysed glyoxal resin. Creates permanent creases.
PROTE®-SET PI	Extender resin. Soft and pleasant handle. Dopant softeners.
PROTE®-SET MLF	Stiffness and brightness finishing.
PROTE®-SET BRIGHT	Gives a glowing effect. Soft, non-ionic. Very good adhesion.
PROTE®-SET DPE	Effect "aged".

PROTE®-SET DRE

Dyeing with reactive dyes. Excellent yield.

#### **WORLDWIDE MAIN LOCATIONS** PROTEX MEMBER OF PROTEX INTERNATIONAL ASIA China - SINO PROX Chemicals GAOYAO Ltd China - SHANDONG PROX CHEM China - SUZHOU PROX CHEM Hong Kong - PROX-ASIA Ltd Indonesia - PT PRODIAN CHEMICALS South Korea - PROTEX KOREA Co Ltd Taïwan - HERZER Co. Ltd Thailand - THAIPROX Ltd **AMERICA** Brazil - PROX DO BRAZIL USA - MACE POLYMERS & ADDITIVES Inc. USA - NORTHERN SPECIALTY CHEMICALS Inc. USA - PROX-CHEM AMERICA Inc. **EUROPE** Austria - PROTEX WARENHANDELS GmbH Netherland - PROTEX NEDERLAND BV **HEADQUARTERS:** Belgium - PROTEBEL Portugal - PROX LDA 6, rue Barbès - CS80050 Denmark - PROX KEMI APS Spain - QUIMOPROX S.L. 92532 LEVALLOIS-PARIS cedex (France) France - PROTEX Sweden - PROTEX SVERIGE AB Phone: + 33 (0) 1 41 34 14 00 SYNTHRON Switzerland - PROTEX-CHIMIE S.A. + 33 (0) 1 41 34 14 16 United Kingdom - CHROMATECH Germany - PROTEX EXTROSA specialtychemicals@protex-international.com Italy - PROXITALIA PRODOTTI CHIMICI Srl PROTEX CHEMICALS Ltd october 2019 www.protex-international.com