



AUXILIARIES



TEXTILE

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TEXTILE AUXILIARIES

Core range selection
and full product line



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**PREPARATION
& DYEING**

CATEGORY	RANGE
ACIDIFIERS	ZETACID
ANTIFOAMING AGENTS	ZETAFOAM
BUFFERING AGENTS	ZETABUFFER
CARRIERS	ZETADIF
CREASE-MARK INHIBITORS	ZETASLIDE
DEAERATING / WETTING AGENTS	ZETAWET
DEGRADATION AGENTS	ZETAPROTECT
DETERGENTS	ZETAPON
DISPERSING AGENTS	ZETASPERSE
ENZYMES	ZETALASE
FIXING AGENTS	ZETAFIX
LEVELLING AGENTS	ZETANIL
OPTICAL BRIGHENERS	ZETABLANC
OXIDIZING / ANTIREDUCING AGENTS	ZETAOX
REDUCING AGENTS	ZETARED
SEQUESTERING AGENTS	ZETACHEL
SOAPING AGENTS	ZETASOAP
STABILIZING AGENTS	ZETASTAB
THICKENING AGENTSW	ZETAVISC

**FINISHING &
SPECIAL PRODUCTS**

ANTISTATIC AGENTS	ZETASTAT
ESSENCES	ZETAESSENCE
SILICONE SOFTENERS	ZETASIL
SOFTENERS	ZETASOFT
UV ABSORBERS	ZETASORB
WATER & WATER-OIL REPELLENT AGENTS	ZETAFOB
NON-REACTIVE RESINS	ZETAFLEX
REACTIVE RESINS	ZETAREACT
CATALYST	ZETAKIN

TEXTILE AUXILIARIES

**CORE
PRODUCT
RANGE**

PREPARATION

ALL FIBRES

DESIZING & SCOURING AGENTS	ZETALASE HT Amylase				
SEQUESTERING AGENTS	ZETACHEL RAN ■ BS S/D phosph & polycarb derivates - Sequestering/ Dispersing all round	ZETACHEL PTA BS S/D/H Phosphonic Acid derivate - Pure sequestering	ZETACHEL P-FL S/D/T/H Polyphosphate - Interferes with Metal Dyes	ZETACHEL BTC S/D phospho-polycarboxylic acid - Acid demineralizing	
PEROXIDE STABILIZERS	ZETASTAB PAD ■ Discontinue / biodegradable	ZETASTAB E-VP Continue / biodegradable			
PEROXIDE KILLER	ZETALASE KLR 1000 Peroxide Killer				
BLEACHING COMPOUNDS	ZETAPON ASB Jet / low foam	ZETAPON AMF 200 Continuous			
WETTING AGENTS	ZETAWET KGN ■ BS Anionic	ZETAWET D60 Nonionic	ZETAWET MC 200 Mercerizing		
CELLULASE	ZETALASE PLUS CEL Biopolish Neutral	ZETALASE BT30 CEL Biopolish Neutral	ZETALASE ANC CEL Biopolish Neutral (wider pH)		
LUBRICANTS/CREASE MARK INHIBITORS	ZETASLIDE L-DP NEW ■ Cellulosics High stability To Electrolytes	ZETASLIDE S-MV 300 ■ Synthetics Decrease friction	ZETASLIDE L-LA CEL & Syn Smooth Handle	ZETASLIDE L-AC CEL & Syn Smooth Handle	
DETERGENTS NONIONIC	ZETAPON EW NEW ■ BS Solvent detergent bio/eco - All purpose / Suitable JET	ZETAPON ECO Solvent detergent bio/eco - All purpose / Suitable JET	ZETAPON J 700 BS Wetting & detergent All purpose very low foam	ZETAPON AMF 200 Stabiliser-sequestrant-wetting & detergent - perfect combination with ZETACHEL BTC	ZETAPON ASB ■ BS Bio emulsifier-stabilizer-sequestrant & detergent
DETERGENTS SPECIAL	ZETAPON FTL BS Bleaching Powder GOTS	ZETAPON SGL BS Strong emulsif. power LT bio/eco Suitable JET			
RedOx PROCESS CONTROL	ZETARED 2F ■ Reducing agent stabilised	ZETARED A ■ Reducing agent	ZETARED AL Reducing agent WO&Silk	ZETARED AZ Reducing agent WO&Silk	
pH PROCESS CONTROL	ZETABUFFER A-AC ■ Core Neutralise & sequester Neutralizer				
DEFOAMER/DEAERATOR	ZETAFOAM T4 200 ■ BS HT silicon defoamer	ZETAFOAM EST 130 Non silicon defoamer	ZETAWET ASA ■ BS Wetting deaerating & defoamer		

DYEING

CELLULOSE & BLENDS

DISPERSING AGENT	ZETASPERSE IW LIQ ■ BS non-ionic universal use	ZETASPERSE NNO / NNO LIQ anionic vat, metal komplex dyes.others	ZETASPERSE L-RN ■ BS solubilizer Reactive, direct, acid dyes		
S/D SEQUESTRING / DISPERSING	ZETACHEL RAN ■ BS S/D phosph & polycarb derivates - Sequestring/ Dispersing all round	ZETACHEL PTA BS S/D/H Phosphonic Acid derivate - Pure sequestring	ZETACHEL BTC S/D phospho-polycarboxylic acid - Acid demineralizing	ZETABUFFER B-BTR S/D hydroxy-polycarbox acids phosphorus free - buffer pH bicarbonate Reactive Dyeing - protective colloid	
WETTING AGENTS	ZETAWET KGN ■ BS High performance anionic	ZETAWET D60 Nonionic	ZETAWET ASA ■ BS Wetting & deaerator	ZETAWET AIR Wetting & deaerator	
SOAPING AGENTS	ZETASOAP 359 Remove reactive hdrolisate/ prevent backstaining	ZETASOAP SLT Remove reactive hdrolisate/ prevent backstaining LT	ZETASOAP SP 80 Remove reactive hydrolysisate/ prevent backstaining LT & Printing	ZETASOAP A Soaping VAT, but also Direct & Sulphur dyes	ZETASOAP G Soaping printed articles sp PA
LUBRICANTS/CREASE MARK INHIBITORS	ZETASLIDE L-DP NEW ■ CEL High stability to electrolytes	ZETASLIDE S-MV 300 ■ Synthetics decrease friction	ZETASLIDE L-LA CEL & Syn smooth handle	ZETASLIDE L-AC CEL & Syn smooth handle	
DETERGENTS NONIONIC	ZETAPON EW NEW ■ BS Solvent detergent bio/eco All purpose / Suitable JET	ZETAPON ECO ■ Solvent detergent bio/eco All purpose / Suitable JET	ZETAPON J 700 BS Wetting & detergent All purpose very low foam	ZETAPON SGL BS Strong emulsif. power LT bio/eco - Suitable JET	
LEVELLING AGENTS	ZETANIL OR VAT & Direct dyes	ZETANIL DT Direct dyes	ZETAPON ERN Improves solubility & penetration of reactive dyes		
RESERVING AND AFTERTREATMENT	ZETAFIX CAP / CAP 100 ■ FF R&D dyes	ZETAFIX DRD R&D dyes	ZETAFIX ECO ■ BS FF R&D dyes GOTS	ZETAFIX RA-N 120 ■ Reserving PA dyeing CO & Acid Dyes fixing agent	ZETAFIX 7241/B Reserving PA dyeing CO & Acid Dyes fixing agent
PADDING AUXILIARIES	ZETASTOP AM 20 Antimigrant Reactive, Disperse, Vat, Sulphur & Pigments				
RedOx PROCESS CONTROL	ZETARED 2F ■ Reducing agent stabilised	ZETARED A ■ Reducing agent	ZETARED ECO Reducing agent	ZETARED SF LIQ Acid Reductive clearing in combination ZETACID A-AC	ZETAOX MNB GR / MNB LIQ BS Oxidising agent VAT, antireducing agent
pH PROCESS CONTROL	ZETABUFFER A-AC Core Neutralise & sequester Neutralizer	ZETABUFFER B-TR 110 Alkaline buffer-Reactive dyeing (type A'flo) Stand alone alkali	ZETABUFFER B-SC Alkaline buffer-Reactive dyeing Substitutes carbonate		
DEFOAMER	ZETAFOAM T4 200 ■ BS HT silicon defoamer	ZETAFOAM EST 130 Non silicon defoamer	ZETAWET ASA ■ BS Wetting & deaerator		
OBA'S OPTICAL BRIGHTENERS	ZETABLANC 101 CEL & PA Bluish shade / NOT stable Red agent & stable to H2O2	ZETABLANC OCN CEL & PA Neutral shade / stable Red agent & H2O2	ZETABLANC A-BN CEL & PA Strong bluish/Violet shade / NOT stable Red agent & stable to H2O2		

DYEING

POLYESTER

DISPERSING AGENT	ZETASPERSE NNO / NNO LIQ Basic anionic dispersing	ZETASPERSE N 65 ■ BS Levelling & dispersing. Rapid Dyeing	ZETASPERSE ELP Levelling & dispersing economic	ZETASPERSE OP Oligomers dispersion/ remover	
SEQUESTERING AGENTS	ZETACHEL P-LF S/D/H Phosphonate sequestering HT Hydrolysis stability	ZETACHEL PTA BS S/D/H Phosphonic Acid derivate - Pure sequestering			
WASHING AGENTS	ZETAPON ECO Solvent detergent bio/eco All purpose / Suitable JET	ZETAPON EW NEW BS Sp. synthetic, solvent bio/ eco. No Foam - All purpose / Suitable JET	ZETAPON OX Degreasing Elastane blends	ZETAPON SGL BS Strong emulsif. power LT bio/eco	
LUBRICANTS/CREASE MARK INHIBITORS	ZETASLIDE L-DP NEW ■ Solvent bio/eco, No Foam - All purpose / Suitable JET	ZETASLIDE S-MV 300 ■ sp. synthetic, solvent bio/ eco. No Foam - All purpose / Suitable JET	ZETASLIDE L-LA Degreasing Elastane blends	ZETASLIDE L-AC Strong emulsif. power LT bio/eco Suitable JET	
LEVELLING AGENTS	ZETANIL RAD PES Leveller with penetrating power. Rapid Dyeing	ZETASPERSE N 65 ■ BS Levelling & dispersing - Rapid Dyeing	ZETASPERSE PHT CONC PES Leveller economic		
CARRIER	ZETADIF ATP Carrier				
RedOx PROCESS CONTROL 1	ZETARED 2F ■ Reductive clearing Oligomers dispersion/ remover	ZETARED A ■ Reductive clearing	ZETARED ECO Reductive clearing	ZETARED SF LIQ Acid Reductive clearing in combination ZETACID A-AC	
RedOx PROCESS CONTROL 2	ZETAOX HWF Anti-reducing agent - protect reduction-sensitive dyes	ZETAOX OHE Anti-reducing agent - protect reduction-sensitive dyes			
pH PROCESS CONTROL	ZETABUFFER A-AC ■ pH corrector & buffer agent Neutralizer	ZETABUFFER A-TAD PES dyeing buffer agent	ZETABUFFER B-PE PES alkaline dyeing soft (pH 8,5)	ZETABUFFER B-TAP PES alkaline dyeing hard (pH 9,5)	
DEFOAMER/ DEAERATOR	ZETAFOAM T4 200 BS HT silicon defoamer	ZETAFOAM EST 130 Non silicon defoamer	ZETAWET ASA BS Wetting & deaerator		
OBA'S OPTICAL BRIGHTENERS	ZETABLANC PEC LIQ Neutral shade / exh & thermosol	ZETABLANC ESN Bluish shade / NOT stable Red agent & stable to H2O2			
UV ABSORBER	ZETASORB E1 LIQ BS UV Absorber - Combination of heterocyclic derivatives	ZETASORB AM UV Absorber - Triazines/ heterocyclic derivatives	ZETASORB AM-HP UV Absorber - Triazine based		
MACHINE CLEANING	ZETAPON PAS HP Deterg. strong emuls. power. Stable under turbulent & reductive conditions	ZETARED 2F Reductive clearing Oligomers dispersion/ remover	ZETASPERSE OP Oligomers dispersion/ remover	ZETAPON OX Degreasing Elastane blends	

DYEING

POLYAMIDE and/or WOOL

DISPERSING AGENT	ZETASPERSE IW LIQ ■ BS Non-ionic universal use	ZETASPERSE NNO / NNO LIQ Anionic vat, metal komplex dyes.others	ZETASPERSE L-RN BS Solubilizer reactive, direct, acid dyes		
SEQUESTERING AGENTS	ZETACHEL PTA BS S/D/H Phosphonic Acid derivate - Pure sequestering				
WASHING AGENTS	ZETAPON J 700 BS Wetting & detergent - All purpose very low foam	ZETAPON ECO Solvent detergent bio/eco - All purpose / Suitable JET	ZETAPON EW NEW BS Solvent detergent bio/eco All purpose / Suitable JET	ZETAPON SZ WO Emuls, Deterg., Seques. Wett/Deaer. preparation, bio/softening properties	
SOAPING AGENTS	ZETASOAP 359 remove reactive hdrolisate/ prevent backstaining	ZETASOAP G Soaping printed articles sp PA			
PEROXIDE STABILIZERS	ZETASTAB BCW Wool Bleaching Compound	ZETASTAB ACL Wool Bleaching			
LUBRICANTS / CREASE-MARK INHIBITORS	ZETASLIDE S-MV 300 Synthetics decrease friction	ZETASLIDE L-LA CEL & Syn smooth Handle	ZETASLIDE L-AC CEL & Syn smooth Handle		
LEVELLING AGENTS 1	ZETANIL CD / CD96 ■ BS PA (&WO) levelling agent - Fiber and dye affinity	ZETANIL FSR (an) / HMS (ni) PA moderate Barrè Affinity; FSR dye / HMS fiber	ZETANIL B BS WO/PA blends levelling agent - Neutral version	ZETANIL NY-PW WO/PA blends levelling agent - Acid version	
LEVELLING AGENTS 2	ZETANIL R-LN 200 BS WO amphoteric	ZETANIL G28 WO reactive dyes	ZETANIL CNC Decrease contrast two PA fibres - PA pure anionic / Fiber affinity		
RESERVING AGENTS	ZETAFIX RA-N 120 Reserving PA dyeing CO & Acid Dyes fixing agent	ZETAFIX 724I/B Reserving PA dyeing CO & Acid Dyes fixing agent			
FIXING AGENTS	ZETAFIX CWB PA wet fastness & chlorinated water fastness - PA, PA/EL Beach wear	ZETAFIX NFF ■ PA wet fastness FF free - stable synth. tannin	ZETAFIX PNL LIQ BS PA wet fastness compatible with conc acids - stable synth. tannin - PA reserving	ZETAFIX CAP / CAP 100 wet fastness CO/PA Blends - PA per foulard	
RedOx PROCESS CONTROL	ZETARED AL / AZ Wool & Silk - Reductive clearing	ZETARED WO / WO300 Wool Bleaching - Reductive clearing	ZETARED ECO Reductive clearing	ZETARED A Reductive clearing	ZETARED 2F Reductive clearing
pH PROCESS CONTROL	ZETACID AD / AD CONC ■ BS Basic acid donor, generation & pH regulation	ZETACID MIL ■ Advanced acid donor, generation & pH regulation	ZETACID LA High performance acid donor, generation & pH regulation		
PROTECTION PROCESS CONTROL	ZETAPROTECT NIF PA anti-yellowing Protection Phenolic/NOx	ZETAPROTECT OX PA thermo/treatment yellowing	ZETAOX WAO WO protection at HT		

DEFOAMER/ DEAERATOR	ZETAFOAM T4 200 ■ BS HT silicon defoamer	ZETAFOAM EST 130 Mineral oil defoamer	ZETAWET ASA ■ BS Wetting & deaerator	ZETAWET AIR Detergent	
OBA'S OPTICAL BRIGHTENERS	ZETABLANC SK 200 PA bluish/violet shade / stable Red agent & H2O2	ZETABLANC WT LIQ CEL& PA neutral shade / stable Red agent & H2O2	ZETABLANC LFZ PA bluish/violet shade / stable red agent & H2O2	ZETABLANC TW PA violet shade / stable red agent & H2O2	
UV ABSORBER	ZETASORB UVP NEW PA Fibers - Copper based	ZETASORB PL LIQ PA Fibers - Copper based	ZETASORB LFP WO/PA Blends - benzotriazole derivative		

DYEING POLYACRYLICS

DISPERSING AGENT	ZETASPERSE IW LIQ ■ BS Non-ionic universal use	ZETASPERSE NNO / NNO LIQ Anionic / stripping faulty dyeings			
WASHING AGENTS	ZETAPON ECO Solvent detergent bio/eco All purpose / Suitable JET	ZETAPON EW NEW BS Specially synthetic, solvent bio/eco. No Foam All purpose / Suitable JET			
MIGRATION AUXILIARIES	ZETANIL 355 Maximum migration of cationic dyes, does not block fiber				
RETARDING AGENTS	ZETANIL PAN PAN & blends levelling. Retarding with Permanente effect. Fiber saturation				
DEFOAMER/ DEAERATOR	ZETAFOAM T4 200 BS HT silicon defoamer	ZETAFOAM EST 130 Non silicon defoamer	ZETAWET ASA BS Wetting & deaerator		
pH PROCESS CONTROL	ZETABUFFER A-AC pH corrector & buffer agent - Neutralizer				
RedOx PROCESS CONTROL	ZETARED 2F ■ Reductive clearing	ZETARED A ■ Reductive clearing			

FINISHING

ALL FIBRES

FATTY AMIDES SOFTENERS	ZETASOFT AK 200 ■ Pseudo cat, excelent on PAN also in dyebath All round softener	ZETASOFT ANF BS Hidrophilic. Suitable for whites	ZETASOFT A-PR Soft hand Knitt. Wo & Blends, Antistatic properties	ZETASOFT BC 200 All round compatible with all finishes	ZETASOFT FW 100 Flakes, easy dissolution, non yellowing
SILICONE SOFTENERS	ZETASIL PRT 200% Microemulsion, all round elastomeric, sewability	ZETASIL TR 200% Macroemulsion, some permanency	ZETASIL REX Hydrophilic Microemulsion, high substantivity, good for garments	ZETASIL HD ■ BS Hydrophilic Microemulsion, high substantivity, good for garments	
COMPOUND SOFTENERS	ZETASIL HPS Pseudo cationic, soft, swollen & slipery hand, good for garments	ZETASOFT 3M Cationic, high yield swollen, slipery and draping hand	ZETASIL CME Pseudo cationic, knit & fabrics, soft & slipery hand		
WAXES/LUBRICANTS	ZETASOFT CPE Non-ionic, universal. Suitable for whites, knit & fabrics, sewability and raising	ZETASOFT KW Pseudo cationic, lubricant & antisatic effect, CO yarns	ZETASOFT PES Pseudo cationic, lubricant & antisatic effect, PES yarns	ZETASLIDE YL Yarn twisting	ZETASLIDE STX Lubricant antistatic, rope opening
SPECIAL FINISHING	ZETAFLEX PAV VA vinyl acetate resin Full hand, swollen and not rigid	ZETAFLEX A VA vinyl acetate resin Full hand, swollen and not rigid	ZETAFLEX A180 ■ AC acrylic resin, self crosslink Antipilling	ZETAFLEX H-RG AC stiff acrylic resin	ZETAFLEX IFR Dry & wet rub fastness improvement
	ZETAFLEX SW Silica anti-slip, compatible with other finishes	ZETAREACT AC3 F resin crease recovery containing formaldehyde	ZETAREACT WFC BS FF resin crease recovery resin formaldehyde free with catalyst, 3D effect	ZETAWET WH Weight increaser	
WATER REPELLENCY	ZETAFOB WTR FF Fluor-free water repellency on natural & synthetic fibers				
WATER & OIL REPELLENCY	ZETAFOB 76 ECO Fluor C6 based chemistry for water and oil repellency				
FLAME RETARDANT	ZETAFLAM FRP Synthetic fibers, permanent				
ANTISTATIC	ZETASTAT NB PES antistatic & soil Release properties				
DEFOAMER/DEAERATOR for waster water plants	ZETAFOAM TL Defoamer for waste water Plants				
MACHINE CLEANING	ZETAPON PAS HP Deterg. strong emuls. power - Stable under turbolent & reductive conditions	ZETARED 2F Reductive clearing Oligomers dispersion/ remover	ZETASPERSE OP Oligomers dispersion/ remover		

ABBREVIATION	MEANING
F	Formaldehyde free
R&D	Reactive & Direct
R, Dis,V,S & Pig	Reactive,Disperse, Vat, Sulphur & Pigments
CO	Cotton
CEL	Cellulose
PA	Polyamide
Syn	Synthetics
LT	Low Temperature
S/D	Sequestring/Dispersing
Red	Reduction agent
HT	High Temperature
NOx	Nitrous Oxide
AC	Acrilic resin
VA	Vinyl Acetate

**TEXTILE
AUXILIARIES**

**PRODUCT
INDEX**

Products have been listed in **alphabetical ordered**.

PRODUCT NAME	DESCRIPTION	IONI CHARACTER
B ZETABLANC 101	CEL Optical brightener with high substantivity to the cellulosic fibers suitable for the application by exhaustion in oxidizing medium and in continuous processes. It gives a very high degree of whiteness with a strong bluish shade.	anionic
ZETABLANC A-BN	CEL Optical brightener with high substantivity suitable for the treatment of cellulosic articles with exhaustion process. It gives a very high degree of whiteness with a blue/purple shade.	anionic
ZETABLANC ESN	PES Optical brightener with high substantivity for thermoplastic fibers. It allows to achieve a high degree of whiteness with a purple / blue shade. It is also applicable in discontinuous processes at low temperature (where it is not required a specific carrier). Due to its non-ionicity and to its high thermal stability it is especially suitable for thermofixing treatment between 160°C and 200°C.	non-ionic
ZETABLANC LFZ LIQ	PA,WO,Silk Optical brightener suitable for PA, WO and Silk by exhaustion in reducing bath and also for CEL fiber in oxidant bath. It gives a high degree of whiteness with purple shade. It is also applicable in continuous processes such as acid shock, steaming and thermofixing of polyamide.	anionic
ZETABLANC OCN	CEL High substantivity liquid optical brightener, producing very bright shades neutral cast. Neutral non-shaded., Specially recommended for Continuous processes (Pad-roll/Pad-steam) but also indicated for Exhaust application., Usually used in combination with H2O2 at HT high temperature. Also suitable for mercerized cotton and viscose rayon bleaching. Presents good wash and light fastness. Can easily be dosed in automatic dispensing units and also diluted in any proportion.	anionic
ZETABLANC PEC LIQ	PES Optical brightener with high substantivity for thermoplastic fibers. It is suitable for discontinuous processes at low temperature (where it is not required a specific carrier). Due to its non-ionicity and to its high thermal stability it is especially suitable for thermofixing treatment between 160°C and 200°C.	non-ionic
ZETABLANC SK 200	PA,WO & Silk Optical brightener suitable for the treatment of by exhaustion in reducing bath. It gives a good degree of whiteness with purple shade. It is also applicable in continuous processes such as acid shock, steaming and thermofixing.	anionic
ZETABLANC TW	PA,WO & Silk high affinity Optical Brightener and their blends in all stages of processing. Presents a slight violet white cast. May also be applied to CEL fibers with medium affinity. Stable under both process conditions, reductive with ZETARED A or ZETARED 2F and oxidative in the presence of H2O2. Must be applied in fresh water or in the presence of a suitable complexing agent.	anionic
ZETABLANC WT LIQ	CEL, PA, WO & Silk Optical brightener with medium to high substantivity. It gives a good degree of whiteness with neutral/ purple shade. It is suitable for continuous and discontinuous processes. Particularly fit for acid shock and exhaustion in the reducing bath on PA fiber.	anionic
ZETABUFFER A-AC	pH corrector and buffering agent ideal for various textile processes. It is odourless and non-volatile and due to its high reactivity it is particularly indicated in the neutralization step of articles that after the various processes show residual alkalinity in the substrates.	absent
ZETABUFFER A-TAD	Acidifying and buffering agent ideal for the dyeing of PES and its blends with disperse or disperse/direct dyes in single bath. Due to its dispersing and sequestering properties, it acts as protector of dyes sensitive to heavy metals and to temporary water hardness. It maintains constant pH of the bath during each phase of the process.	anionic
ZETABUFFER B-BTR	High yield dispersing, sequestering and suspension power; acts as a protective colloid during the dyeing of cotton and other cellulosic fibers, and their blends; performs a pH buffering action during the start substantive phase avoiding a premature reactive dye hydrolysis, often caused by the presence of bicarbonates in the water or due to preparation alkaline residues, not duly neutralized; does not demetallize and does not impairs the exhaustion of dyes, it does not contain surfactants, non-foaming.	anionic
ZETABUFFER B-PE	Alkalizing/buffering agent with dispersing action in the dyeing of PES fibers in alkaline conditions. Hydrolyses and disperses oligomers; PES alcaline dyeing soft (pH 8,5)	-
ZETABUFFER B-SC	Alkaline Buffer - sodium carbonate substitute dyeing Reactive dyes on cellulose & blends. as a result of combining its dosage and its buffering action excelent reproduceability will be achieved, in addition it increases the yield of the dyes as the quantity of hydrolysed dyestuff is reduced. compared to the use of traditional alkalis, leaves a better soft hand, less rough. Suitable for automatic dispensing systems. Amount to be used: Indicatively, we recommend using it at a rate of 1; 1 - 1; 2 parts more than the sodium carbonate generally used.	absent
ZETABUFFER B-TAP	Alkalizing/buffering agent with dispersing action in the dyeing of PES fibers in an alkaline environment. It keeps the pH of the dyebath constant in the range between 9; 0 and 10; 0. Hydrolyses and disperses oligomers; PES alcaline dyeing hard (pH 9,5)	absent
ZETABUFFER B-TR 110	Alkaline buffering agent suitable for the dyeing of cellulosic fibers with reactive dyes. Stand alone alkali system	absent
C ZETACHEL BTC	Phosphonic acid sequestering agent with very low phosphorus content. Effective in a wide range of pH (from strongly acidic to strongly alkaline); finds application as a dispersant, sequestering agent and solubilizer in the treatments of substrates contaminated with strong hardness and metal ions.	absent

PRODUCTS INDEX

PRODUCT NAME	DESCRIPTION	IONI CHARACTER
ZETACHEL P-FL	High-yield sequestering agent for several textile processes. For its high sequestering power it is particularly fit in PES dyeing with disperse dyes, where it prevents the possibility of interaction between dyestuff and heavy metals, such as copper or iron, should they be present. Its high hydrolytic stability avoids the formation of phosphate ions and of the deriving water eutrophication (Algae) problems.	absent
ZETACHEL PTA	High-yield and stable sequestering/dispersing agent. Strong chelating power either on alkaline-earth and heavy metals, unaffacting dyestuffs during the dyeing. Unlike polyphosphates, its use does not cause eutrophication (Algae) problems.	absent
ZETACHEL RAN	High-yield and multiple-action sequestering/dispersing agent for several wet treatments. Demineralization of the textile material in any pH condition, with scale-reduction in the equipment and considerable support in reaching high white degrees in cellulosic fiber bleaching. In the dyeing it acts as a protective colloid inhibiting the precipitation of the dyestuffs due to the presence of hardness-residues in the bath. Does not demetallize metal-complex dyestuffs and in the soaping allows a clear improvement of final fastnesses.	anionic
ZETACID AD	pH acidity generator and regulator, used in the dyeing of PA and WO fiber with acid, metal-complex and reactive dyes; . Gradual freeing acidity with the increase of treatment temperature, it favours the uniform dyestuff migration from the bath to the substrate, also allowing to start dyeing in mild alkaline conditions.	absent
ZETACID AD CONC	pH generator and regulator specific for the dyeing of PA and WO with acid, metal-complex and reactive dyes. Gradually freeing acidity with the increase of treatment temperature, it favours the uniform dyestuff migration from the bath to the substrate, allowing to obtain very marked pH values. Suitable for packaging dyeing and for light to medium shades; allows dyeing start in mild alkaline conditions with very good results on shrink-proof wool, too.	absent
ZETACID LA	pH slow release acidity generator and regulator, particularly suitable for dyeing PA and WO fiber with acid, metal-complex and reactive dyes. By slowly releasing the acidity as the treatment temperature increases, it allows the color to migrate uniformly from the bath to the substrate. Suitable for packaging dyeing and for light to medium shades	absent
ZETACID MIL	pH generator of acidity and regulator specific to reach values of mild acidity during dyeing. Finds its main application in the dyeing of PA with acid and metal-complex dyes. Increasing the temperature it gradually releases acidity, allowing the dyestuffs to migrate uniformly from the bath to the substrate. Allows to start the dyeing in mildly alkaline medium. Particularly suitable for light to medium shades.	absent
D ZETADIF ATP	Carrier ideal for the dyeing of PES, PES/WO, PES/CEL and PES/EL, even at temperatures below 130°C; . Increases the wool reserve in the dyeing of PES/Wool blends. It can be used with optical brighteners, even in chlorite bleaching. Moderate foam	anionic
ZETADIF ECOL-N	Odorless carrier specific highly effective for PES dyeing and related blends. Almost odorless, no foam, non-toxic. Very good Wool reserving action in the dyeing of PES/wool. It does not decrease wet fastness and it is very easy to remove with a simple wash after dyeing; . Allows to optimal performance at temperatures 96 and 105°C. Also used with Optical bleaching, and as levelling agent to recover faulty dyeings, too deep or unlevelled.	anionic
F ZETAFIX 7241/B	PA Fixing Agent, improve wetfastness with acid and metal complex dyes. mod.PA improves wetfastness of cationic dyes on basified PA fibers. PA Reserving agent when dyeing blends with direct dyes	anionic
ZETAFIX CAP / CAP 100	Formaldehyde-free fixing agent for dyeings and printings with direct and reactive dyes. Application by exhaustion or in continuous. Gives very good wet fastness. No, or only minimum, influence on shade- and light-fastness. Also available in double-concentration form (ZETAFIX CAP).	cationic
ZETAFIX CWB	Synthetic tannin which improves the wet and chlorinated water fastness of acid and pre-metallized dyes applied on PA and PA/LY. It is particularly suitable for yarn and fabric for swimsuits.	anionic
ZETAFIX DRD	Formaldehyde-free fixing agent for CEL fibers with direct and reactive dyestuffs. Minimal shade change may occur.	cationic
ZETAFIX ECO	Formaldehyde-free fixing agent for CEL fibers with direct and reactive dyestuffs. It does not affect, or only minimally, the hand and the light fastness. GOTS registered	cationic
ZETAFIX NFF	Ecological fixing agent (formaldehyde-, phenol- and bisphenol A-free). Improves wet fastness of acid and metal complex dyes PA and blends. It does not affect the shade and light fastness of dyed or printed textiles.	anionic
ZETAFIX PNL LIQ	Fixing agent ideal for PA wet fastness improvement of acid and metal-complex dyes; . Minimum impact on change of shade and light fastness of the textile materials; . Good stability to acids, also in concentrated form.	anionic
ZETAFIX RA-N 120	Fixing agent to increase wet fastness on PA fibers dyed with acid and pre-metallized dyestuffs. Prevents PA staining by direct dyes, during the dyeing of polyamide/cotton blends.	anionic
ZETAFLAM FRP	Flame retardant for thermoplastic fibers. AOX free- Free from halogen derivatives. Stands up to 50 washes	slightly anionic

PRODUCT NAME	DESCRIPTION	IONI CHARACTER
ZETAFLX A	VA Polivynil acetate resin, imparts a full and swollen hand to fabrics of any type. Finishings have got a good resistance to washings, besides the hand of the fabrics is practically unaffected by humidity variations.	non-ionic
ZETAFLX A180	AC Acrylic self-crosslinking resin finishing with soft hand and average plasticity. It is suitable as a binding agent for pigments and increases abrasion resistance and anti-pilling effect.	anionic
ZETAFLX H-RG	AC Acrylic Emulsion low temperature self-reticulating resin, no need of other resins or catalysts. AC stiff acrylic resin. Optimal self-crosslinking temperature is 100 - 110°C. Increased abrasion resistance and anti-pilling effect; . Yarn anti-slip effect on fabrics depending on construction. Increase article cohesion respective resistance. Excellent stability to water, in which they do not swell, Good stability to light, atmospheric agents and ageing, Almost no heat sensitivity within a wide temperature range and good stability to oils and hydrocarbons such as petrol and to chlorinated solvents.	anionic/non-ionic
ZETAFLX IFR	PU Polyurethane finishing thermo-crosslinkable. Ecological fixing agent that improves, sometimes considerably, dry and wet rubbing fastness of articles dyed with reactive dyes. It is compatible with cationic and non-ionic finishing agents.	cationic
ZETAFLX PAV	VA Polivynil acetate aqueous dispersion and it is applicable to all kind of fibres. Contains thin particles, which have a medium polymerization degree and which permit to obtain semi-rigid films. It gives an effect compared to the one obtained with the common starches; the only difference is that it is not modified either by the mechanical treatments, or by humidity variations. No shade change. Full hand effect, swollen and not rigid. The finishing obtained possess a good wash fastness.	non-ionic
ZETAFLX SW	Soft-hand antislipping agent based on a colloidal-silica dispersion. Its adhesive effect on the fibers remarkably reduces the sliding of the threads in shuttle items and particularly on satin, with no significant alteration of the treated article. Very good compatibility with finishing agents as well as with antcrease and water-proofing agents.	cationic
ZETAFOAM EST 130	Silicone free deafoamer. Ensures good foam elimination in reel- and cone-machines as well as in nozzle-equipment with strong turbulence. Very good deaerating and lubricating effect, improves material sliding in a jet, even during HT dyeing at 130°C.	non-ionic
ZETAFOAM T4 200	High-stability, concentrated silicone defoamer; stability in a wide range of pH and temperatures. For its excellent resistance it is suitable for the use in machines with strong mechanical action as well as in the formulation of printing pastes.	non-ionic
ZETAFOAM TL	Silicone-based defoamer, for its good yield and mechanical stability it is fit for several applications. Excellent performance in waste-waters treatment plants.	non-ionic
ZETAFOB 76 ECO	C6-based fluorocarbon resin for water- and oil-proofing treatment of any fiber. It is generally applied in continuous processes but it can be successfully applied by exhaustion and subsequent polymerization. The treated articles show good washing resistance.	slightly cationic
ZETAFOB WTR	, WR Water-Repellent - Fluoro-free hydrophobic agent to achieve water repellency on natural and synthetic fabrics, Excellent water repellent properties with medium-soft hand with good abrasion resistance., It gives insensitivity to watery dirt or good washing permanence if combined with boosters, AOX Free, APEO free and solvent free. Non inflammable., Poor dry-cleaning fastness., Mainly applied by padding, but also possible by exhaust. Requires a slight acid medium to improve penetration and requires a wetting agent/deaerator.,	cationic
L ZETALASE ANC	Celulase enzymatic formulation for bio-polishing treatment on cellulosic fiber articles. It operates in a broad pH spectrum.	absent
ZETALASE BT30	Celulase for the low temperature bleaching of ready-to-wear garments. Already active at 30°C. Broad pH spectrum.	absent
ZETALASE HT	Amylase suitable for enzymatic desizing, either for cold (storage) desizing and for high-temperature (boiling or steaming) desizing.	absent
ZETALASE KLR 1000	Peroxidase with catalyst action in the decomposition of residual hydrogen peroxide after bleaching bath. Best action between 25 and 65°C and in a pH range of 5 - 10. Its use, in a new bath at the end of the bleaching, ensures better reproducibility of the shades and lower water consumption besides avoiding the use of sulphur-base derivatives. It is compatible with cellulase for the biopolishing treatment before the dyeing. Two different forms available, at different concentration (ZETALASE KLR 500 and ZETALASE KLR).	absent
ZETALASE LT40	LT Celulase Biopolishing. Eliminates fibrils, fluff and pilling from cellulosic fiber articles. Avoids material, Improves softer hand even on OE yarns, Surface becomes smoother, consequently improving brightness which is higher on mercerized articles and improves sewability. Operates in a wide range of pH 5,0-9,0, ideally 6; 0-7; 5 and wide temperature range 20-45°C ideally 35-45°C. Neutral pH, so no need for pH buffersC, pH: 5 - 9; the ideal range is between 6; 0 and 7; 5. Generally used after desizing or scouring and before dyeing. Often used after dyeing as finishing step.	-
ZETALASE PLUS	Celulase for the bio-polish treatment of cellulosic articles. For its special formulation it may be used in neutral medium, therefore even in pre- and after-dyeing treatments; no need for acidic buffering systems, thus no colour-turning danger.	absent

PRODUCTS INDEX

	PRODUCT NAME	DESCRIPTION	IONI CHARACTER
N	ZETANIL 355	PAN migrating levelling agent, non-permanent, does not contribute to fiber saturation. Contributes to maximum migration of cationic dyes. it allows the complete exhaustion of the dyeing bath.	cationic
	ZETANIL B	PA Levelling agent in the dyeing of polyamide fibers with acid and metal-complex dyes, Biodegradable, particularly effective in elimination of barré. Recommended for automatic dispensing systems, Reserving agent for the dyeing of WO/PA blends with acid and pre-metallized dyes.	anionic
	ZETANIL CD / CD96	Levelling and retarding agent for the dyeing of PA & WO (also blended) with acid and pre-metallized dyes. At pH 3-5 it avoids the goods damage due to the sulphuric acid and ensures uniformity and exhaustion degree even at 85°C. Diluted form also available on request (ZETANIL CD/96).	amphoteric
	ZETANIL CNC	PA Pure anionic levelling agent for acid dyes; remarkable levelling power for the different fiber affinities.	anionic
	ZETANIL DT	CEL Direct & Vat dyeing leveling agent, very poor foam, dyeing of cotton, linen and cellulosic fibers with direct and vat dyes., Excellent leveling effect, with high retarding power especially at the beginning of the dyeing; Very minimal possibility of foaming under turbulent conditions.	non-ionic
	ZETANIL FSR	Biodegradable levelling/buffering agent for the dyeing of PA & Wool fibers with acid and pre-metallized dyes. Particularly effective in reducing crease-marks due to the different fibers affinities.	anionic
	ZETANIL G28	WO retarding/levelling agent in the dyeing of WO fibers with reactive dyes. Suggested to control the exhaustion of the shrink-proof of wool; with normal wool it covers root tips differences, improving the dyestuff exhaustion on the fiber. Favours migration in the case of defective or uneven dyeings on wool and polyamide.	pseudo-cationic
	ZETANIL HMS(NI)	PA leveling agent in exhaustion dyeing with acid and pre-metallized dyes. Strong leveling action, with affinity to both fiber and dyestuff. Effective right from initial stages together with temperature increase it shows a retarding effect by exhaust and diffusion rate of dye into the fiber., For very difficult articles or Barré effect, it is recommended to combine with ZETANIL FSR carrying out a pre-treatment by boiling for 15-20' in bath with 2-4% p.m.	non-ionic
	ZETANIL NY-PW	WO/PA Levelling agent with acid dyes contributing to tone-in-tone dyeings., Levelling PA with acid and metal-complex dyes. When dyeing with metal-complex dyes becomes particularly effective in the elimination of barré.	anionic
	ZETANIL OR	CEL VAT Levelling agent dyeing cellulosic and bast fibers with vat and direct dyes. No foam formation and therefore no stains due to vat dyes oxidation. Increases dyestuffs diffusion speed; this effect is greatly appreciated in the dyeing of very thick articles, where penetration is difficult (gabardine, ribbons, etc;).	pseudo-cationic
	ZETANIL PAN	PAN and PAN/WO and PAN/CO blends levelling agent. Retarding with Permanente effect, it means it contributes to fiber saturation., High fiber affinity. Competes with dyes. Particularly advantageous for fibers with high saturation degree. ,	cationic
	ZETANIL RAD	PES Rapid Dyeing Leveling/dispersing/penetrating and diffusing agent, in the dyeing of polyester fibers and blends. Low odor.	anionic
	ZETANIL R-LN 200	WO Amphoteric levelling agent with reactive dyes. Covers root-tips differences.	amphoteric
O	ZETAOX HWF	PES Antireducing agent specific for PES dyeing, used to avoid yield loss and reduction effects when dyeing with disperse dyes. Suitable for dyeings in single bath with disperse and reactive/direct dyes.	absent
	ZETAOX MNB GR	Antireducing agent used in the textile printing with reactive and direct dyes. May be used as oxidizing agent to avoid over-oxidation phenomena of vat dyes and to carry out their oxidation in alkaline medium. Also available in liquid form.	anionic
	ZETAOX MNB LIQ	Antireducing agent used in the textile printing with reactive and direct dyes. May be used as oxidizing agent to avoid over-oxidation phenomena of vat dyes and to carry out their oxidation in alkaline medium. Avoids uncontrolled color change in the printings, even with constant steaming conditions. In scouring and dyeing baths, it prevents the reducing action caused by the sizes, ensuring better reproducibility.	anionic
	ZETAOX OHE	PES Anti-reducing agent to avoid loss of yield and improve reproducibility of reduction sensitive colorants. It is indicated in the dyeing of polyester fibers and related blends with cotton or wool. It is also particularly effective in dyeing WO/PAN blends.	absent
	ZETAOX WAO	WO Specific auxiliary for HT woll protection in the prolonged dyeing of polyester fiber blends. In the dyeing of wool/acrylic blends it carries out a protective effect even on the cationic dyestuffs in the bath. Its formulation with surfactants ensures better penetration of the dyeing and levelling of the shades.	absent

PRODUCT NAME	DESCRIPTION	IONI CHARACTER
P ZETAPON AMF 200	Detergent, wetting agent, sequestering agent and bleaching stabilizer for pad-batch and pad-steam processes. The use of the single product eliminates the need of dosage in the bleaching baths of the differen, necessary auxiliaries, thus favouring the process rationalization.	anionic/non-ionic
ZETAPON ASB	Bleaching Compound with stabilizing, sequestering and wetting properties. Recommended for alkaline bleaching with H2O2 peroxide. Easy to dose. It regulates, with a single and easy dosage, the peroxide reaction, chelates calcium, magnesium and iron ions, conferring thanks to its high wetting-detergent action, very good material penetration l and therefore promoting an effective impurities extraction and correspondent suspension. Being a compound, it avoids the need of further auxiliaries. In parallel, it allows a reduction of storage tanks. It is Foam free.	non-ionic
ZETAPON ECO	Detergent formulated with anionic and nonionic surfactants, in combination with solvents of natural origin. Emulsifying action on oils, waxes and fats maintaining a low foaming level in forced-circulation baths and preserving biodegradability and safety of natural solvents.	anionic/non-ionic
ZETAPON ERN	CEL Non foaming auxiliary for the dyeing of CEL with reactive dyes. Improves the solubility of reactive dyes, favoring the penetration into the fiber	anionic
ZETAPON EW NEW	Controlled-foam detergent with solvent, biodegradable, non toxic and non dangerous. particularly used in flow-jet, carries out a remarkable emulsifying action on the oils used in the lubrication of spinning needles. the produtc is already effective at low temperature (30-40°C), being capable of removing 60-70% of the lipophilic component. the low foam formation allows to use it on any type of equipment.	non-ionic
ZETAPON FTL	Powder auxiliary for the bleaching of cellulosic fibres. Free from optical brighteners. It is no longer necessary to add hydrogen peroxide and caustic soda for bleaching.	anionic
ZETAPON J 700	Synergic mixture of controlled-foam, non ionic surfactants, used for scouring and preparation for dyeing of any textile substrate. Its remarkable wetting and emulsifying action on the oils and waxes make it suitable for both continuous and discontinuous application. It is especially suggested for the preparation of PA/EL substrates and has got biodegradability over 90%.	non-ionic
ZETAPON OX	Specific detergent for cleaning dyeing equipment. Facilitates the elimination of oligomers and fatty substances.	-
ZETAPON PAS	Specific detergent for cleaning dyeing equipment. Facilitates the elimination of oligomers and fatty substances.	cationic / non-ionic
ZETAPON SGL	Strong emulsifying power detergent-wetting agent towards all those oils generally used in lubrication. Highly recommended in Jet. Particularly suitable for as preparation of staple, yarns, threads and both flat and knitted fabrics of any fiber and their blends. High performance at 30-40°C, able to remove at this temperature more than 60-70% of the greasy impurities, total removal possible by 60-70°C which allows energy savings. Produces excellent detergency and anti-redeposition effect on the waxes and natural paraffins present on the fibers. It is stable to acids, alkalis, reducing agents and oxidants in general. Thanks to the low foam formation, processes can be used on any type of equipment. It is also suitable for the scouring of synthetic articles. Does not contain phenol-derivatives and chlorinated or otherwise toxic solvents; also the solvent component in the product degrades rapidly, therefore the product should be considered "easily biodegradable".	non-ionic
ZETAPON SZ	Stronger Emulsifier, Detergent, Sequestering, Wetting/Deaerating agent in preparation, easily biodegradable. Strong emulsifying capacity towards oils and waxes including silicone, such as those present on elastomeric fibers, with minimal foam formation even on machines with high turbulence. Excellent dispersing/suspension effect against pectin and alkaline-earth salts, and, suitable for scouring and bleaching baths with hydrogen peroxide. High penetrating-wetting action, eliminates air from material avoiding any risk of non-penetrated dyeing. Wide stability in both acid and alkaline baths which turns it multipurpose. Also used in demineralization. Excelent behaviour in the preparation of Wool, Yarns or woolen fabrics and blends. Presenting a so low viscosity it is suitable to be used in automatic dispensers.	non-ionic
ZETAPROTECT NIF	The product blocks the free amine groups of the polyamide fiber protecting the material from the storage yellowing due to the reaction products of phenolic substances and nitrogen oxide.	anionic
ZETAPROTECT OX	Avoids yellowing caused by high temperature treatments on polyamide fiber also mixed with elastomer. Appreciable characteristics even on items to be pre-formed, on which it prevents greying. Emulsification of the oils present on the material. May be used for items subject to EU-Ecolabel and OEK0 TEX 100 regulations.	non-ionic
R ZETAREACT AC3	Low-formaldehyde glyoxalic resin with catalyst for 3D effect. Used for anticrease finishings and for the dimensional stabilisation of fabrics of cellulosic and animal fibers blended with synthetic ones as polyamide, polyester and polyacrylonitrile.	absent
ZETAREACT WFC	Formaldehyde-free glyoxalic resin for 3D effects, contains catalyst. Used for anticrease finishings and for the dimensional stabilization of fabrics of cellulosic and animal fibers mixed with synthetic fibers as polyamide, polyester and polyacrylonitrile.	absent
ZETARED 2F	Reducing agent. Lack of odour and higher stability than sodium hydrosulphite. specific for discoloration treatments and in the after-dyeing stripping of polyester fiber.	absent

PRODUCTS INDEX

PRODUCT NAME	DESCRIPTION	IONI CHARACTER
ZETARED A	Reducing agent for dyeing and printing cellulosic fibers with reduction dyestuffs. Reducing agent in stripping PE fiber dyed with disperse dyestuffs.	absent
ZETARED AL	Stabilized reducing agent for the bleaching of wool, silk, cellulose and polyamide fibres. Natural fibers are usually bleached with hydrogen peroxide. Only combining oxidizing / reducing bleaching can an optimal white effect be achieved with good resistance to light and storage. In the case of synthetic, regenerated or silk fibers, the preliminary bleaching with peroxide can be avoided. Insensitive to water hardness. Bleached materials remain, even if treated in the presence of hard water, free of deposits and presents natural hand. Good stability, baths remain active longer as bleaching power, compared to baths set up with non-stabilised hydrosulphite. Quickly neutralizes by eliminating active chlorine, chloramines, hypochlorite and chlorite.	absent
ZETARED AZ	Reducing agent for dyeing discharge in the textile industry. stabilized reducing agent special for acid discharge of dyes on wool, half wool, polyamide and acetate. Almost odorless, soluble in water with a weakly acidic reaction. It is sufficiently stable in hard water; however, it becomes cloudy with the addition of any type of alkali. Dissolves easily in water and is stable up to pH 3.5. By raising temperature, the acid solutions perform a strong reducing action destroying part of the totality of the dyes on, semi-wool, polyamide fibers and acetate. Maximum discharge effect in acidic solution is obtained at pH 3.5-5.0. The addition of acid must be dosed in such a way that a pH not lower than 3.0 is achieved (product destruction). Insufficient addition of acid inhibits its action. Optimum discharge temperature is above 80°C. No negative influence on hand is to be expected.	absent
ZETARED ECO	Reducing agent for the dyeing and printing of cellulosic fibers with reduction dyes. Reducing agent in stripping PES fiber dyed with disperse dyes.	anionic
ZETARED SF LIQ	PES stripping agent. reducing agent specifically designed for the stripping under both acid and alkaline conditions of polyester dyed with disperse dyes. Its stability guarantees a gradual action and a superior yield compared to hydrosulphite. It can be used in Exhaust high turbulence systems since it does not produce foam. This makes possible to strip in the same bath, with consequent time, water and energy savings. If acid conditions are required, it performs best in combination with ZETABUFFER A-AC	absent
ZETARED WO / WO300	Brightener for the bleaching of wool in the dyeing. Allows to reduce or eliminate the preliminary bleaching, unaffacting normal dyeing conditions. It does not alter the natural soft feel of the articles and favours brightness of pastel dyeings, avoiding the typical yellowing phenomenon of the fibre in the dyeing phase.	absent
S ZETASIL CME	High-quality softener for knitted and shuttle fabrics and ready garments. Confers very soft, slippery and elastic hand; suitable for any textile material, of natural and man-made fibers.	pseudo-cationic
ZETASIL HD	Silicone softener. Hydrophilic, antistatic liquid of high substantivity, also suitable for ready garments. Gives an extremely soft and sliding hand and the material is particularly hydrophilic.	pseudo-cationic
ZETASIL PRT 200%	Elastomeric finishing (silicone micro-emulsion) fit for all fibers. Allows high-quality finishings with wet- and dry wash-fastness. Capable of penetrating and evenly spreading among the fibers of the material thus emphasizing the typical effects of elastomeric finishings as resilience, elasticity, release, slipperiness and sewability.	pseudo-cationic
ZETASIL REX	Hydrophilic and antistatic silicone softener. High-substantivity liquid, also fit for ready garments. Extremely soft and sliding hand. The material gets particularly hydrophilic.	non-ionic/pseudo-cationic
ZETASIL TR 200%	Reactive, silicone macro-emulsion. Confers to the fabric softness and a slippery-silky hand which resists even after several washings. Effective on several types of fibers, included cotton and its blends with protein- and synthetic fibers.	pseudo-cationic
ZETASLIDE L-AC	Lubricating auxiliary which inhibits crease- and crease-marks formation during preparation, dyeing and after-treatment of shuttle and knitted articles of natural and man-made fibers and their blends. It does not affect the enzymatic activity in the bio-polishing phase and is particularly fit in the defibrillation and dyeing operations of regenerated cellulosic fibers.	non-ionic
ZETASLIDE L-DP NEW	Crease-mark inhibitor, avoids crease formation on natural and synthetic fibers and their blends in the different textile steps. Features stability at high temperature and may also allow to operate without antifoaming agent, having already got antifoaming properties, too. Compatible with any type of auxiliary and dyestuff, except cationic ones.	anionic
ZETASLIDE L-LA	Crease-inhibitor with dispersing/leveling properties for dyeing both natural and artificial cellulosic material. Particularly suitable also in the dyeing of PL fiber articles and relative blends (PL/CO, PL/WO).	non-ionic
ZETASLIDE S-MV 300	Non-foaming crease-mark inhibitor surfactants-free that prevents the formation of creases during the stages of preparation, dyeing and after-treatment of articles in shuttle and knitted. It is compatible with standard auxiliary products for preparation, dyeing, post-dyeing and finishing. It is ideal for all kind of fibers.	absent
ZETASLIDE STX	Special product for fiber yarn lubricating and smoothening with very good antistatic properties., Paraffin free, adsorbs substantively onto the yarn achieving complete exhaustion, the bath shows clear after treatment. , It creates a film-layer on the yarn, allowing best performance on knitting and sewing operations, May avoid rewinding with paraffin application. , It may be used with Excellent results as lubricating and antistatic agent on Indigo rope dyeing machines to easily separate each cable.,	pseudo-cationic

PRODUCT NAME	DESCRIPTION	IONI CHARACTER
ZETASLIDE YL	Oil Lubricant for textured, twisted yarns with anti- splash and antistatic properties suitable for Polyamide, Polyester and natural fiber yarns. ZETASLIDE YL is completely alkylphenols-free. Ensures stability and generates a regular distribution film on the yarn. Anti-splash. Limits the friction coefficient of yarn/metal, yarn/ceramic, yarn/yarn, even in subsequent transformations. Non-yellowing, it is not corrosive and it is not irritating. It is easily washable from fabric. Can also be used in plying/twisting and torsion increase operations, it works as lubricant of natural fibers such as wool, silk, cotton and synthetic fibres. May also be used "as is" in Lick Roll, Brushwork, Immersion with sponges, Spray and others.	non-ionic
ZETASOAP 359	Non-foaming soaping agent with effectiveness even in the presence of electrolytes. Particularly effective in the soaping of articles dyed with reactive dyes where there are residues of salts and alkalis in the washing bath. It is an excellent anti-redeposition agent on white backgrounds during washing of the prints. It is also suitable for the soaping of articles in polyamide (blended with elastomer, too) dyed with acid dyes.	non-ionic
ZETASOAP A	Auxiliary with specific affinity for direct, vat and sulfur dyes ideal to remove large quantities of them. If applied in the dyeing with direct dyes with high substantivity for the fiber it retards the interaction with the cellulosic substrate.	pseudo-cationic
ZETASOAP G	Auxiliary ideal for washing and soaping of prints and dyed textiles of any type but particularly for polyamide and its blends with elastomer. It promotes the removal of unfixed dye and exerts an excellent anti-redeposition action on white backgrounds. It is suitable for reductive application under alkaline conditions.	pseudo-cationic
ZETASOAP SLT	Auxiliary developed specially for soaping at a low temperature (80°C) of cellulosic articles dyed with reactive dyes. It allows to decrease cost and time of the discharge phase without altering the wet fastness compared to a classical soaping at 98°C.	pseudo-cationic
ZETASOAP SP 80	No foaming soaping agent characterized by a very good efficiency at low temperature (80°C). Specific for the soaping of cellulosic articles dyed with reactive dyes, especially when a vigorous soaping is needed to maximize the brilliance of the colors and fastness. Due to its anti-redeposition properties, it also finds application in the soaping of prints and to keep grounds unaltered.	pseudo-cationic
ZETASOFT 3M	Pseudo-cationic softener with high yield and quality; gives very soft, slippery, swollen and draping hand. Good elasticity and sewability of textiles. Suitable for all fibers and manufacturing. Specific for the finishing of knitted fabrics of cotton and its blends and for light fabrics (silk and silk blends with synthetic fibers).	pseudo-cationic
ZETASOFT AK 200	Pseudo-cationic softener specific for cellulosic fibers and their blends. Specific for acrylic fiber, where it can be applied directly in the dyeing bath. It gives the material a soft and voluminous hand. It causes a low foam formation and is therefore suitable for application in apparatus with high turbulence such as flow/jet or washing machine.	pseudo-cationic
ZETASOFT ANF	Amphoteric hydrophilic softener with high yield. It gives a soft, swollen and slippery hand. It does not cause yellowing during drying and is therefore suitable for bleached materials. It has a high stability at high temperatures (180°C) and so it is ideal for thermofixing. It has also a good compatibility with anti-crease resins (preliminary tests with catalysts are suggested).	pseudo-cationic
ZETASOFT A-PR	Antistatic softener for yarns in fine knitwear (cashmere, lambswool, etc;) and their blends with synthetic fibers. It gives a more compact and a very soft and a pleasant hand with appreciable smoothness. It is also suitable for cellulosic fibers and their blends.	pseudo-cationic
ZETASOFT BC 200	High performance cationic liquid softener ideal for all fibers. It does not cause yellowing of bleached or white materials. It can be applied in the same bath with anti-crease resins (urea/formaldehyde and reactive resins) and also with various inorganic and organic catalysts like ammonium salts, magnesium chloride, zinc salts, etc; .	pseudo-cationic
ZETASOFT CPE	Lubricating agent and hand modifier for shuttle and knitted fabrics of any fiber; improves sewability and raising. Confers a very pleasant and tendentially full hand and may be combined with common antcrease resins and catalysts. Does not affect the whiteness degree of optically brightened material.	non-ionic
ZETASOFT FW 100	Basis for softener of rapid dissolution that does not give yellowing during drying. It is specific for bleached materials.	pseudo-cationic
ZETASOFT HPS	Cationic Softener for natural fibers, artificial and synthetic presented in form of yarns, fabrics or garments. It gives soft / swollen / slippery / elastic hand. It gives the treated material a more drape and a very soft pleasant smoothness. Particularly suitable for the finishing of knitted garments in cotton, wool, polyamide and blends. Thanks to its particular combination increases the electrical conductivity of the fiber surface and therefore is particularly suitable for the finishing of manufactured products containing synthetic fibers. Generally has little influence on white material; can also be used in combination with other products typically used in textile finishing, such as derivatives elastomeric silicones (ZETASIL PRT 200%) to improve slipperiness and resilience, with microcrystalline waxes (ZETASOFT 3M, ZETASOFT CPE) to improve the sewability and ironing, and with vinyl acetate resins (ZETAFLEX A) to increase fullness.	cationic
ZETASOFT KW	Softener with lubricating and antistatic properties developed for the finishing of cotton yarns (staple, textured yarn, filament). It may be used on any type of fiber. It gives the material a fairly soft and slippery hand.	pseudo-cationic
ZETASOFT PES	Softener with lubricating properties developed for the finishing of polyester yarns (staple, textured yarn, filament). It gives a soft, slippery, swollen and draping hand. It also reduces static electricity.	pseudo-cationic
ZETASORB AM	PES Automotive and Outdoor. Increase light fastness of PES dyeings with dispersed dyes, also on CDP -cationic dyeable polyesters and polyester blended fabrics. Protective action against UV (UPF: Ultra Violet Protection Factor)	non-ionic

PRODUCTS INDEX

PRODUCT NAME	DESCRIPTION	IONI CHARACTER
ZETASORB AM-HP	Automotive (and Outdoor) photo-stabilizer and UV absorber for polymeric substrates, specific for the automotive sector. Guarantees excellent photo-stability to the treated articles thanks to its ability to absorb UV radiation. It has low volatility during high temperature processes and inhibits thermo-degradation of the polymers on which it is applied. It is suitable for materials such as polyamide or polyester polyurethane-based imitation leather. It can be used in the same dye bath or separately. It can be applied by exhaustion process in the dyeing bath or by padding in the finishing bath, before drying.	non-ionic
ZETASORB E1 LIQ	Combination of heterocyclic derivatives. Increase the light fastness of the dyes obtained with dispersed dyes on polyester, cationic dyeable polyesters and polyester blended fabrics	non-ionic
ZETASORB FTS	DELETE	DELETE
ZETASORB LFP	UV-Absorber for polyamide and wool materials subjected to intense exposure to light, eg. car upholstery fabrics, decorative fabrics, etc. It has been developed to improve at least one degree in light fastness of shades made with acid/Metal complex dyes on polyamide and wool fibers. Reduces damage to the polyamide fiber when subjected to prolonged periods of exposure to light, also when associated with high temperatures. Has an excellent affinity with polyamide fibers and good stability in dyeing conditions. It is able to improve the lightfastness of the Rhodamine dye (however, a slight change in tone may occur). Can be applied both according to exhaustion and continuous processes.	anionic
ZETASORB PL LIQ	Protective agent for polyamide fibres suitable for applications in continuous and exhaustion. It reduces the photochemical damage of the fiber and its degradation (resulting in yellowing) and protects the physical properties of elasticity, extensibility and resistance to abrasion. It increases the light fastness of the dyes, in particular of metal complex dyes so it is ideal for the automotive industry.	anionic
ZETASORB UVP NEW	UV protective agent for polyamide 6 and 6; 6, applicable both continuously and when used up. It performs its action by reducing the photochemical damage of the fiber and the dyes, increasing their light fastness. Particularly suitable for the automotive industry. Minimum environmental pollution thanks to its low content of heavy metals.	anionic
ZETASPERSE ELP	PES dispersing, levelling, emulsifying, wetting agent dyeing with disperse dyes. High dispersing properties, differs from other dispersing agents because it has got good wetting, detergent-emulsifying properties on lubricant oils and oligomers. It is also recommended as dispersing agent during reductive cleaning. Remarkable properties as levelling agent by repairing faulty dyeings. Compatible combination with carriers like ZETADIF ECOL-N and with dispersing agents like ZETASPERSE NNO LIQ.	anionic
ZETASPERSE IW LIQ	In the dyeing of cellulosic fibers with direct dyes it improves levelling, penetration and fastness of the dyeings. Allows the combined use of acid and cationic dyestuffs in the dyeing of wool/acrylic blends. Also available in flakes form (ZETASPERSE IW flakes).	non-ionic
ZETASPERSE L-RN	Dispersing and solubilizing agent for acid and direct dyes with low solubility even in 80°C water. Allows to prepare concentrated dyestuff solutions and to get more brilliant and penetrated shades during the dyeing process.	absent
ZETASPERSE N 65	Dispersing and levelling agent for polyester fast dyeing, avoids formation of deposits as well as dyestuff agglomeration either in the heating- and in the cooling-phase. Also suitable in the dyeing of polyester fiber mixed with cellulose: it does not get it dirty because it is stable in the presence of electrolytes.	anionic
ZETASPERSE NNO	Concentrated powder form of ZETASPERSE NNO LIQ. approx: 3x	anionic
ZETASPERSE NNO LIQ	Multiple use, anionic dispersing/ solubilizing agent. Coadjuvant in the solubilization of anionic and plastosoluble dyestuffs, as well as in the preparation of printing pastes. Also available in powder form with a 60% higher yield (ZETASPERSE NNO).	anionic
ZETASPERSE OP	Oligomers dispersing agent suitable for the dyeing of polyester fibers with disperse dyes. It prevents the accumulation of oligomers resulting from prolonged treatment at high temperature. It ensures a good cleaning of the textile and of the machines, especially for yarns.	no ionic
ZETASPERSE PHT CONC	Non ionic auxiliary for the dyeing and the subsequent stripping of polyester fiber. High levelling and migrating properties on disperse dyes in the exhaustion dyeing of PES. Very useful in the dyeing of PES/WO blends.	non-ionic
ZETASTAB ACL	Hydrogen peroxide stabilizer in wool bleaching with slow systems. Its use favours good white degree and very low damage of the fiber. Unlike common polyphosphates it does not cause water eutrophication.	absent
ZETASTAB BCW	Wool Rapid Bleaching stabilizer with hydrogen peroxide. Allows to obtain an excellent degree of white stable over time, limited damage to fibers. Particularly recommended for yarn in hanks, tops and staples and fabrics. It requires no further addition of other chemicals. Very efficient at 40-45°C resulting a high degree of white. It presents the capacity to buffer pH at values between 9.0 and 9.5. Presents also sequestering properties which prevents catalytic action on peroxide.	anionic
ZETASTAB E-VP CONC	Hydrogen peroxide stabilizer in alkaline bleaching of cellulosic fibers and blends. Allows the gradual development of the oxidizing agent and the consequent improvement of the final whiteness degree. Fit for discontinuous processes, pad-batch and steaming. Sodium silicate-free.	anionic

PRODUCT NAME	DESCRIPTION	IONI CHARACTER
ZETASTAB PAD	Hydrogen peroxide stabilizer in alkaline bleaching of cellulosic fibres and blends. Partially (sometimes completely) replaces sodium silicate thus ensuring better hydrophilicity of the bleached material. Has got good sequestering action on metals and stability in 130 vol. hydrogen peroxide.	anionic
ZETASTAT NB	Additive for polyester fibers with soil-release properties. Other benefits include: a drastic decrease in electrostatic accumulation and very good moisture retention. Gives comfort combined with excellent resistance when compared with other hydrophilic, polyester-based auxiliaries.	non-ionic
ZETASTOP AM 20	Anti-migrant in continuous dyeing with reactive, disperse, vat, sulfur and pigment dyes	anionic
W ZETAWET AIR	Wetting and deaerating agent of high yield. Stable to a wide pH range; it ensures a strong wetting power without foam formation. It does not contain alkyl phenol derivatives and is readily biodegradable.	non-ionic
ZETAWET ASA	Wetting and detergency single action auxiliary with high deaerating properties. It achieves a quick elimination of air from the substrate and cleanses without the addition of other emulsifiers. High mechanical and thermal stability.	non-ionic
ZETAWET D60	Combination of surfactants with emulsifying and deaerating characteristics. it allows to reach an excellent hydrophilization of the fiber while ensuring the elimination of extraneous substances. It is particularly suitable for scouring and desizing of raw cotton articles.	non-ionic
ZETAWET KGN	Non-foaming wetting agent, silicone-free . High yield wetting agent, excellent resistance to caustic soda, up to 4° Bé; excellent performance on VAT Dyeing; almost no foam, it is specifically used in the dyeing of cellulosic fibers and blends, improves quick penetration of the liquor into yarns on cones or particularly dense fabrics or in the seams of ready-made garments. Excelent performance if dyeing articles without prior purge. . guarantees excellent hydrophilicity, as well as favoring the elimination of cotton "shells".	anionic
ZETAWET MC 200	High yield, non-foaming wetting agent for mercerization and caustic soda treatment. anionic surfactant developed to allow a homogeneous and regular penetration of caustic soda solutions during mercerization presenting high wetting power with consequent acceleration of the penetration of the caustic soda solution, with excellent stability to caustic soda in concentrated solutions like 33°Bè (28%). Excellent foam behavior, absence or minimal foam formation even in dilution; perfect regularity of soaking and swelling during the mercerization phase; stable wetting effect over time, effective even in the presence of hardness; excellent compatibility with sequestering agents (eg ZETACHEL PTA).	anionic
ZETAWET SM	High yield, non-foaming wetting agent for mercerization and caustic soda treatment. anionic surfactant developed to allow a homogeneous and regular penetration of caustic soda solutions during mercerization presenting high wetting power with consequent acceleration of the penetration of the caustic soda solution, with excellent stability to caustic soda in concentrated solutions like 33°Bè (28%). Excellent foam behavior, absence or minimal foam formation even in dilution; perfect regularity of soaking and swelling during the mercerization phase; stable wetting effect over time, effective even in the presence of hardness; excellent compatibility with sequestering agents (eg ZETACHEL PTA).	anionic
ZETAWET WH	Full and wet hand finishing for fabrics of various fibres. Special finishing "hygroscopic" additive real hand modifier, biodegradable and non-toxic. Weight increaser. It produces very marked changes in the hand and appearance of finished fabrics. Highly compatible additive with other finishing agents as softeners (eg. ZETASIL PRT 200%, ZETASOF AK 200%, etc.), or fillers (eg. ZETAFLEX A, ZETASIL 3M. Starches, etc.). ZETAWET WH is applicable only by foulard or by padding.	absent





TEXTILE AUXILIARIES

2023-10



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Warnings: the information and recommendations presented here were written with the utmost care, but they can't be extended to cover every possible case. They have to be intended as non-binding guidelines and must be adapted to the process condition. The product - whether used singly or in combination with other substances - should undergo lab tests prior to bulk production. Our Company can not be held responsible for any negative results. The Customers take on full responsibility regardless of the result they are going to get.