

TEXTILE AUXILIARIES

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Product catalogue



ZSCHIMMER & SCHWARZ



YOUR EXPERT SOLUTION
PROVIDER FOR ALL KINDS OF
TEXTILES.

PRODUCT OVERVIEW FOR TEXTILE AUXILIARIES


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AN OVERVIEW FOR THE  **DIAMONTEX** PRODUCTS
FOR DIGITAL PRINTING IS AVAILABLE SEPERATELY.

LUBRICANTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
CELLANA RV			
Ionicity	anionic/ non-ionic	combination of ethoxylates derivates and selection of antistatic products	free of mineral oils, well balanced lubricity, cohesion and antistatic properties, non-yellowing
Substrate	wool, cashmere		carded and semi-worsted yarn spinning of wool, cashmere and their blends
CELLANA PRS			
Ionicity	anionic	combination of fatty acids derivates	free of mineral oils, well balanced lubricity, cohesion and antistatic properties, non-yellowing
Substrate	wool, cashmere		carded and semi-worsted yarn spinning of cashmere and its blends with natural and synthetic fibres
CELLANA VAW			
Ionicity	non-ionic	hydrocarbons and fatty alcohol ethoxylates	contains mineral oils, imparts excellent lubricity, dust binding, non-yellowing, corrosion inhibiting
Substrate	wool		carded and semi-worsted yarn spinning, specifically for coarse wool and natural fibres
FLEROL KFN conc			
Ionicity	non-ionic	polyglycol ether and fatty acid ethoxylates	free of mineral oils, low fibre/metal friction, very good lubricity and antistatic properties, non-yellowing, corrosion inhibiting, readily removable by washing
Substrate	all		worsted and semi-worsted yarn spinning, for all fibre types
FLEROL KFC			
Ionicity	non-ionic	polyglycol ester	free of mineral oils, high dynamic lubricity, low interfibre cohesion, good antistatic properties, highly concentrated, readily removable by washing
Substrate	all	 	worsted and semi-worsted yarn spinning, for all fibre types
FLEROL FNE			
Ionicity	anionic	combination of fatty acids derivates	free of mineral oils, very good antistatic and co- hesion properties, low fibre/ metal friction, non-yellowing
Substrate	wool		worsted yarn spinning, for fine wool with high count yarn
FLEROL MX21			
Ionicity	anionic	combination of fatty acids derivates	free of mineral oils, well balanced lubricity, cohesion and antistatic properties, non-yellowing
Substrate	wool	 	worsted yarn spinning, for medium and fine wool when a good cohesion is requested


LUBRICANTS AND ADDITIVES

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
FLEROL PLM				
Ionicity	anionic	combination of fatty acids derivatives	free of mineral oils, very good antistatic and cohesion properties, low fibre/metal friction, non-yellowing	worsted and semi-worsted yarn spinning, for ordinary and medium wool and its blends with synthetic fibres, especially non-shrink wool
Substrate	wool			
FLEROL BW				
Ionicity	non-ionic	polyglycol ether and fatty acid ethoxylate	eliminates sticking of cotton from honey dew	lubricant for the processing of cotton affected by honey dew
Substrate	cotton			
VOLTURIN TP 3000				
Ionicity	anionic	alkyl phosphate 	excellent antistatic effects, well-balanced stick/slip properties, stable in fixing processes	antistatic agent for synthetic fibres; for all spinning processes
Substrate	synthetics			
VOLTURIN LH05				
Ionicity	anionic	alkyl phosphate	very good antistatic properties, non-yellowing	antistatic agent for wool, silk and acrylic fibres and their blends; for all spinning processes
Substrate	wool, silk, polyacrylonitrile			
ELACTIV QD25				
Ionicity	cationic	derivate of amine quaternized	very good antistatic properties, dust binding, non-yellowing	antistatic agent for acrylic fibres; for open-end spinning
Substrate	polyacrylonitrile			
CONDISOL GP				
Ionicity	non-ionic	ethoxylate compound	increases and preserves the humidity on the fibres in adverse environmental conditions	antistatic agent for wool, silk and acrylic fibres and their blends; for all spinning processes
Substrate	wool, silk, polyacrylonitrile			
SILSOL 130				
Ionicity	anionic	colloidal silica in aqueous dispersion	strong cohesion power, improves adhesiveness between threads	high cohesion agent for natural fibres and their blends; for all spinning processes
Substrate	wool			
SILSOL 330				
Ionicity	anionic	colloidal silica in aqueous dispersion	high cohesion power, improves adhesiveness between threads, preserves the hand of fabrics	high cohesion agent for natural fibres and their blends; for all spinning processes
Substrate	wool			


LUBRICANTS SPECIALITIES

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
FLEROL PP			
Ionicity	non-ionic	polyglycol ester	excellent lubricity, good anti-electrostatic effect, based on raw materials according to FDA, biodegradable
Substrate	polypropylene		
FLEROL CS 45			
Ionicity	anionic	combination of fatty acids and polyoxyethylene	free of mineral oils, well balanced lubricity, cohesion and antistatic properties, non-yellowing
Substrate	wool		
VOLTURIN T05			
Ionicity	anionic	combination of alkylphosphate and selected additives	excellent antistatic effect, does not yellow or go rancid, easily washable in normal processes
Substrate	all		
antistatic agent for spinning processes of natural, artificial and synthetic fibres, combing of wool fibre, nonwoven production of natural, artificial and synthetic fibres			

LUBRICANTS TWISTING AND WEAVING

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
TORSINOL ZSB			
Ionicity	non-ionic	hydrocarbons and fatty acid ethoxylate	very good lubricity, dust binding, antielectrostatic, corrosion inhibiting, easy to remove by washing
Substrate	all		
			
universal use for all fibre types			

WET PARAFFINATING AGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
<p>KATAMIN BW 3.0</p> <p>Ionicity anionic</p> <p>Substrate cotton, polyacrylonitrile</p>	<p>polyethylene, paraffin, fatty alcohol and emulsifiers</p>  	<p>high yarn lubricity and anti-electrostatic property, low amount of paraffins, non-resinifying at higher temperatures, retains hydrophilic nature of cotton, GOTS certified</p>	<p>for yarns made of cellulosic fibres and their mixtures with synthetic fibres, acrylic yarns</p>
<p>KATAMIN UNI</p> <p>Ionicity cationic</p> <p>Substrate all</p>	<p>paraffin and emulsifiers</p> 	<p>very high lubricity and anti-electrostatic property, uniform distribution over the whole bobbin, easy handling, excellent smoothness, GOTS certified</p>	<p>universal application to yarns of all fibre types</p>
<p>KATAMIN GV</p> <p>Ionicity cationic</p> <p>Substrate all</p>	<p>polyethylene, paraffin, fatty acid condensation products</p>	<p>combination of softening and smoothing agents, bulky handle, good anti-electrostatic property</p>	<p>for yarns of all fibre types</p>
<p>KATAMIN EP</p> <p>Ionicity non-ionic</p> <p>Substrate wool</p>	<p>paraffin emulsion</p>	<p>high yarn lubricity property, non-resinifying at higher temperatures</p>	<p>carded spinning of wool and its blends with synthetic fibres for knitted yarn</p>

WARP WAXING/ COLD SIZING AGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
ENSIMOL KW conc			
Ionicity Substrate	non-ionic synthetics	polyglycol ether and fatty alcohol ethoxylate  	warp waxing agent with excellent anti-electrostatic properties, good dust binding capability, very easy to remove by washing, GOTS certified
ENSIMOL WAX			
Ionicity Substrate	non-ionic all	fatty acid ethoxylate and special additives	warp waxing agent with excellent smoothing properties, reduces the tendency of the threads to hook to each other and facilitates the shed formation, very easy to remove by washing
ENSIMOL PB6			
Ionicity Substrate	anionic cotton, polyester	oxyethylated derivatives, antistatic agents and selected additives	high cohesion properties, not sticky, good lubricant and antistatic power, does not turn yellow or develop bad odours, easily washable in normal desizing processes
ENSIMOL BC			
Ionicity Substrate	anionic wool	polymer with high molecular weight	warp waxing agent with good antistatic properties, reduces the formation of dust deposits, easily removable by washing

LUBRICANTS TEARING PROCESSES

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
CELLANA GB			
Ionicity Substrate	non-ionic all	hydrocarbons and fatty acid ethoxylates	mineral oils lubricant, good suppleness and lubricity, dust binding, non-resinifying and corrosion inhibiting

SEQUESTERING AGENTS/ WATER TREATMENT

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
OPTAVON 4UD				
Ionicity	anionic	organic phosphorus and carboxylic acid compound 	strong acid complexing agent with excellent sequestering properties, very good stabilising effect in peroxide bleaching, key product for OPTABLEACH, GOTS certified	acid demineralisation, bleaching, neutralising
Substrate	cotton, linen			
OPTAVON NW				
Ionicity	anionic	organic phosphorus compound 	highly efficient complexing and dispersing agent with an excellent binding of calcium, magnesium and iron ions, supports the detergent effect of surfactants, prevents silicate deposits on machinery parts, GOTS certified	desizing, removal of lubricants, alkaline scouring, bleaching, water correction
Substrate	all			
OPTAVON DSQ				
Ionicity	anionic	organic phosphorus compound	universally applicable sequestering agent with an excellent soil suspending power, very good dispersing behaviour for clay minerals, high iron binding power	desizing, removal of lubricants, alkaline scouring, bleaching, water correction
Substrate	all			
OPTAVON SV				
Ionicity	anionic	polyacrylate compound 	prevents precipitation caused by hard water, dispersing of insoluble substances, high soil suspending power, GOTS certified	desizing, removal of lubricants, bleaching
Substrate	all			

SEQUESTERING AGENTS/ WATER TREATMENT

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
OPTAVON MEX			
Ionicity	anionic	organic phosphorus and	excellent sequestering
Substrate	cotton, linen	carboxylic acid compound	power regarding iron ions and hardness elements, reduction of catalytic damages on the textile goods during hydrogen peroxide bleaching, very good stabilising effect in peroxide bleaching, GOTS certified
			
OPTAVON MEL			
Ionicity	anionic	organic phosphorus and	very good sequestering
Substrate	cotton, linen	carboxylic acid compound	power regarding iron ions and hardness elements, reduction of catalytic damages on the textile goods during hydrogen peroxide bleaching, very good stabilising effect in peroxide bleaching, prevents silicate deposits, GOTS certified
			
OPTAVON FE conc			
Ionicity	anionic	combination of polyfunctional organic acids	water treatment agent for eliminating high iron content of process water or fibres, reduction of catalytic damages to the textile goods during hydrogen peroxide bleaching, GOTS certified
Substrate	all		desizing, bleaching, alkaline scouring
		 	
OPTAVON BAS			
Ionicity	anionic	combination of polyfunctional organic acids	biodegradable sequestering and complexing agent, free of phosphorus, stabilising agent for hydrogen peroxide bleaching, GOTS certified
Substrate	all		desizing, bleaching, removal of lubricants
		 	

SEQUESTERING AGENTS/ WATER TREATMENT

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
OPTAVON F liq				
Ionicity	anionic	organic sodium salt	water treatment agent for eliminating heavy metals and hearty alkaline	scouring process of silk
Substrate	silk			
OPTAVON CL				
Ionicity	anionic	mixture of inorganic salts and sequestering agent	strong sequestering power, avoids salt deposits, higher degree of whiteness	sequestering agent for bleaching acrylic fibres with sodium chlorite
Substrate	wool			




DETERGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
<p>TISSOCYL RLB</p> <p>Ionicity non-ionic Substrate all</p>	<p>fatty alcohol ethoxylates</p> 	<p>highly concentrated, outstanding wetting and deterging power, excellent emulsifying power for mineral and ester oils, waxes and lubricants</p>	<p>universal deterging and wetting agent</p>
<p>TISSOCYL DLF</p> <p>Ionicity non-ionic Substrate all</p>	<p>fatty alcohol ethoxylates</p> 	<p>highly concentrated, low-foaming, good detergency and soil suspending power</p>	<p>deterging and wetting agent for the pretreatment of cellulosic and synthetic fibres, suitable in jet dyeing machines</p>
<p>TISSOCYL CFD conc</p> <p>Ionicity non-ionic Substrate all</p>	<p>fatty alcohol ethoxylates</p>	<p>highly concentrated, good emulsifying power for mineral and ester oils, waxes and lubricants; low foaming, stable to alkali up to 40 g/l NaOH (flakes)</p>	<p>universal detergent and wetting agent for all textile processes, manufacturing of dilutions</p>
<p>TISSOCYL NMP</p> <p>Ionicity anionic/ non-ionic Substrate all</p>	<p>fatty alcohol ethoxylate, natural micro particles</p>  	<p>very good emulsifying of mineral and silicone oils, stabilising of hydrogen peroxide, low foaming, low CSB and BSB values, GOTS certified</p>	<p>ecological detergent for removing oily lubricants from synthetics, bleaching compound for cotton and mixtures</p>
<p>TISSOCYL RC 9</p> <p>Ionicity non-ionic Substrate elastics</p>	<p>combination of non-ionic surfactants</p>  	<p>spontaneous emulsifying of silicone oils, very good emulsifying of lubricants, displays maximum emulsifying effect at low temperatures, GOTS certified</p>	<p>special detergent for the removal of oily lubricants, in particular silicone oils from elastane containing goods</p>
<p>TISSOCYL JT</p> <p>Ionicity non-ionic Substrate synthetics</p>	<p>combination of non-ionic surfactants</p>	<p>excellent emulsifying of oils, lubricants and warp waxing agents, low foaming</p>	<p>detergent for the removal of oily lubricants from cellulosic and synthetic fibers</p>

DETERGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
TISSOCYL POW			
Ionicity	non-ionic	fatty alcohol ethoxylates	excellent emulsifying power for mineral and ester oils, waxes and lubricants; suitable for automatical dosing systems, low foaming
Substrate	all		universal detergent and wetting agent for the pre-treatment of cotton and mixtures
TISSOCYL CT			
Ionicity	non-ionic	alkylpolyglycoether compound	highly concentrated, good emulsifying power for mineral and ester oils, waxes and lubricants, low foaming
Substrate	all		special low foaming detergent for wool, silk and acrylics
TISSOCYL TBL			
Ionicity	non-ionic	alkylpolyglycoether compound	highly concentrated, good emulsifying power for the greasing of wool, mineral and ester oils, waxes and lubricants
Substrate	wool		special detergent for washing raw wool in combing plant
SUPRALAN LMW			
Ionicity	anionic	modified fatty acids ethoxylates with anionic and amphoteric product	high quantity of fine foam, soft and slippery touch, use in all pH ranges, excellent foam stability and duration
Substrate	wool		wetting, milling and washing agent for wool
SUPRALAN FZB			
Ionicity	anionic	natural fatty alcohol derivate	very good detergent and emulsifying power, excellent foam stability
Substrate	wool		wetting, milling and washing agent for fine wool fabrics
AMPHOTEX MB23			
Ionicity	amphoteric	modified fatty acids	very good detergent and emulsifying power, excellent foam stability, biodegradable
Substrate	wool		wetting, milling and washing agent for cashmere fibres
SINCAL F			
Ionicity	anionic	alkylsulphonate	outstanding deterging efficiency, formation of microfoam, GOTS certified
Substrate	wool, cotton		wetting, milling and washing agent for all kinds of fibres; applicable in a pH range of 2 to 12

WETTING AGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
NEWALOL PFN			
Ionicity	non-ionic		excellent wetting properties, low foaming, compatible with enzymes, GOTS certified
Substrate	all		
NEWALOL SPEZIAL			
Ionicity	anionic	sulphosuccinate	quick and even wetting of the goods in an acid up to mildly alkaline range, easy to rinse
Substrate	all		
NEWALOL CL			
Ionicity	non-ionic	ethoxyl product	excellent wetting properties, stable to chlorine
Substrate	wool		




SCOURING AGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
SINCAL MARS flakes			
Ionicity	anionic	natural fatty acids	very good emulsifying, dispersing and rewetting properties
Substrate	silk		
REDUSCOUR SILK			
Ionicity	anionic	fatty alcohol ethoxylate and sequestering agent	very good emulsifying, dispersing and rewetting properties
Substrate	silk		


BLEACHING COMPOUNDS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
REDUZIN WO			
Ionicity	anionic	mixture of compounded organic components	bleaching and dyeing in the same bath, reduces the bleaching time, preserves the wool softness
Substrate	wool		
ZS-CLEANREDOX BFW			
Ionicity	-	mixture of inorganic reducing and complexing agent	bleaching and dyeing in the same bath without hydrogen peroxide, good compatibility with dyestuff
Substrate	wool		

BLEACHING STABILISER

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
REDUSTAB OS			
Ionicity	anionic	polyethylene, paraffin, fatty alcohol and emulsifiers	excellent stabilising properties, applicable for discontinuous and continuous peroxide bleaching, very high degree of whiteness, GOTS certified
Substrate	cotton		
OPTAVON BAS			
Ionicity	anionic	paraffin and emulsifiers 	biodegradable sequestering and complexing agent, free of phosphorus, stabilising agent for hydrogen peroxide bleaching, GOTS certified
Substrate	cotton		
REDUSTAB KOS			
Ionicity	anionic	polyethylene, paraffin, fatty acid condensation products  	excellent stabilising properties, ensures the regular development of oxygen throughout treatment, GOTS certified
Substrate	wool		

PEROXIDE ACTIVATOR

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
<p>OPTAVON LTB</p> <p>Ionicity non-ionic</p> <p>Substrate cotton</p>	<p>complexing compound</p> 	<p>accelerates the activation of hydrogen peroxide, enables safe and short bleaching processes with highest degrees of whiteness also at temperatures below 80°C, eco-friendly product for environmental protection</p> <p>→ key product for COLD-WHITE process</p>	<p>peroxide activator for the low temperature bleaching of cotton</p>

STAIN REMOVERS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
<p>DEPICOL ND</p> <p>Ionicity anionic</p> <p>Substrate cotton, synthetics</p>	<p>fatty alcohol and alkyl amine ethoxylate</p>	<p>distinctive dispersing and soil suspending power, excellent extraction power with regard to fats and waxes, applicable in bleaching and dyeing processes</p>	<p>solvent-free degreasing and washing agent for the scouring of synthetics and cotton</p>





ANTI-YELLOWING AGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
PROTELAN AY			
Ionicity	non-ionic	mixture based on antioxidants (ADH-free) and fatty alcohol ethoxylates	very good protection against thermal yellowing, excellent emulsifying and dispersing effect assists the removal of preparations, applicable by exhaustion
Substrate	polyamide, polyamide/ elastane		
PROTELAN CF 2			
Ionicity	non-ionic	mixture based on antioxidants	prevents yellowing at high temperatures during thermosetting, minimises the danger of yellowing caused by contact heat, very good wetting and emulsifying properties, GOTS certified
Substrate	polyamide, polyamide/ elastane		
			
PROTELAN ATY-P			
Ionicity	-	carboxylic acid amide	excellent protection against yellowing during thermosetting and molding, maximum degrees of whiteness for optically brightened articles, suitable for the usage in foam molding processes
Substrate	polyamide, polyamide/ elastane		
			
PROTELAN CEL			
Ionicity	non-ionic	combination of fatty alcohol ethoxylates and antioxidants	reduces the tendency of yellowing during heat setting, excellent wetting power, pre-emulsifying of oily preparations and dust, GOTS certified
Substrate	cotton/ elastane		
PROTELAN LGA			
Ionicity	anionic	alkyl sulphates	excellent yellowing protection, pH adjustment during application is not necessary, low foaming behaviour, GOTS certified
Substrate	polyamide, polyester, cotton and blends with elastane		
			
anti-yellowing agent designed to reduce yellowing of polyamide and blends with elastane during heat setting, seamless articles			
anti-yellowing agent designed to reduce yellowing of polyamide and blends with elastane during heat setting and molding			
anti-yellowing agent designed to reduce yellowing of polyamide and blends with elastane during heat setting and molding			
anti-yellowing agent designed to reduce the thermal yellowing of cotton/elastane blends			
anti-yellowing agent designed to reduce yellowing of polyamide, polyester, cotton and their blends with elastane during storage			



ANTI-YELLOWING AGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
<p>PROTELAN LGE</p> <p>Ionicity anionic</p> <p>Substrate polyamide, polyester and blends with elastane</p>	<p>formulation of alkyl aryl sulphonates and special additives</p> 	<p>very good yellowing protection, excellent performance at low application temperature</p>	<p>anti-yellowing agent designed to reduce yellowing of polyamide, polyester and their blends with elastane during storage</p>
<p>PROTELAN LGS plus</p> <p>Ionicity anionic</p> <p>Substrate polyamide, polyamide/ elastane</p>	<p>formulation of alkyl aryl sulphonates and special additives</p> 	<p>excellent yellowing protection, low odour → applicable in hot and open treatment baths; reduces the danger of spots and brownish discolourations during continuous tape finishing</p>	<p>special anti-yellowing agent designed to reduce yellowing of polyamide and polyamide/ elastane tapes during storage</p>
<p>PROTELAN LG 55</p> <p>Ionicity anionic</p> <p>Substrate polyamide, polyamide/ elastane</p>	<p>formulation of alkyl aryl sulphonates and special additives</p>	<p>excellent yellowing protection in exhaustion at 40°C and tape application, low odour, pH 5.5 – 6.5 on fabric possible, reduces the danger of spots and brownish discolourations during continuous tape finishing</p>	<p>special anti-yellowing agent designed to reduce storage yellowing of polyamide and polyamide/elastane for achieving a neutral pH value on fabric</p>
<p>PROTELAN LGB</p> <p>Ionicity anionic</p> <p>Substrate polyamide, polyamide/ elastane</p>	<p>alkyl sulphates</p>	<p>achieves good yellowing protection despite the use of buffering water, low foaming behaviour</p>	<p>anti-yellowing agent designed to prevent yellowing of polyamide and polyamide/ elastane and blends during storage; suitable for buffering water</p>




DISPERSING AGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAN DHT			
Ionicity	non-ionic	fatty acid ethoxylate	excellent dispersing power
Substrate	polyester	 	on disperse dyes and very good levelling action
			special dispersing agent for dyeing and aftertreatment of polyester
ZETESAN OLE			
Ionicity	anionic	modified nano particles	excellent dispersing effect
Substrate	polyester		on oligomers, prevents oligomer deposits on polyester material and machine parts
ZS-DYESET RFT			
Ionicity	anionic	combination of a nitrogen derivative with polycarboxylic acid, alkyl aryl sulfonate and inorganic salts	dispersing, sequestering properties, improvement of dyebath stability, increases the reproducibility of the dyeings, no foaming, GOTS certified
Substrate	cellulosics, polyamide, polyester		dyebath conditioner for dyeing of cellulosics, polyamide and polyester
ZETESAN KA			
Ionicity	cationic	mixture of polyglycoether	excellent dispersing power, improves dyestuff rubbing fastness, reduces unfixed dyestuff on the fibres, GOTS certified
Substrate	wool, polyacrylonitrile	 	special dispersing agent for dyeing blends of WO/PAC in a single bath
ZETESAN DAV			
Ionicity	non-ionic	ethoxylated fatty alcohols	excellent dispersing power, good detergency, good emulsifying power of fats and oils
Substrate	all		dyeing and pretreatment of natural and synthetic fibers
ZETESAN 3D			
Ionicity	non-ionic/ anionic	aqueous dispersion of polymers and additives	excellent dispersing power, prevents staining of white ground
Substrate	denim		aftertreatment of denim fabrics
ZETESAN DN			
Ionicity	anionic	modified derivative of aromatic condensed compound	excellent dispersing power in a wide pH range, low foam formation
Substrate	all		dyeing of natural, synthetic fibres and their blends



SEQUESTERING AGENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
OPTAVON SV			
Ionicity	anionic	polyacrylate	dispersing effect, alkali and salt stable, foam-free, no demetallizing effect e.g. on copper containing dye-stuffs, no influence on light fastness, shade and dyestuff yield, GOTS certified
Substrate	all		
			
OPTAVON NW			
Ionicity	anionic	organic phosphorus compound	dispersing of calcium and magnesium separations, foamless, stable within a pH range of 1 up to 14; usage in the polyamide aftertreatment is possible, GOTS certified
Substrate	all		
			

PH REGULATING & BUFFERING/ ALKALI & ACID DONORS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
ALKASET AOB			
Ionicity	anionic	buffer mixture	easy shading, reduces dyeing time, higher dyestuff yield, even and controlled liberation of alkali
Substrate	cellulosics		
SETACID PAS			
Ionicity	non-ionic	organic esters	slowly reduces pH value down to a final pH value of about 4.5 which results only at dyeing temperature
Substrate	polyamide		
			
SETACID AB conc			
Ionicity	-	organic buffer system	excellent buffering effect, good ferric and calcium ion sequestering effect, low-foaming, dispersing effect
Substrate	all		
		 	
			pH adjustment of polyester dyeing baths in the acidic range, exhaust and continue process

WETTING/DEAERATION/PADDING

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
CEFATEX ENN				
Ionicity	anionic	combination of ethoxylates with defoaming components 	wetting, defoaming, high temperature stability, no influence on the shade, GOTS certified	deaerating agent, exhaust process
Substrate	all			
CEFAPAD WAT				
Ionicity	anionic	sulfonocarboxylic ester 	excellent wetting properties	rapid wetting agent for dyeing of polyamide and polyester tapes
Substrate	polyamide, polyester, cotton			
CEFAMIG MP				
Ionicity	anionic	polyacrylamide	foamless, stable to acid and alkali, no influence on shade and dyestuff yield	antimigration agent for pad dyeings on synthetics and cellulotics
Substrate	cellulosics, synthetics			



LEVELLING AGENTS/CARRIER

polyester

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
SETAVIN 3D				
Ionicity	anionic	combination of fatty acid ethoxylate and aromatic carboxylic acid compound	dosable, dispersing, levelling, migration promoting already from 100°C on, no influence on fastness properties	dosable levelling agent with dispersing properties and diffusion accelerating effect
Substrate	polyester			
SETAVIN DEG				
Ionicity	-	fatty acid ethoxylate	levelling, dispersing properties, lowering of absorption rate of the dyestuffs during heating-up phase, dosable	universal standard product levelling and dispersing agent for polyester under HT and rapid dyeing conditions
Substrate	polyester			
SETAVIN PE				
Ionicity	non-ionic	fatty acid ethoxylate  	levelling, dispersing properties, low foaming, high dyestuff retarding effect during heating-up phase, GOTS certified	highly concentrated levelling agent
Substrate	polyester			
SETAVIN SU-E				
Ionicity	anionic	combination of fatty acid ethoxylate and aromatic esters  	levelling, promotes migration already from 100°C on, no influence on fastness properties	concentrated levelling agent with diffusion accelerating effect
Substrate	polyester			
SETAVIN MIG				
Ionicity	anionic	combination of fatty acid ethoxylate and aromatic carboxylic acid compounds	dispersing, levelling, diffusion acceleration, especially for materials with difficult dye penetration	combination of dispersing/levelling agent with diffusion accelerating effect
Substrate	polyester			
ZS-ECOCARRIER CAB				
Ionicity	anionic	aromatic carboxylic acid compound 	biodegradable, low odour	dye carrier discontinuous and continuous processes
Substrate	polyester			

LEVELLING AGENTS/CARRIER

polyamide

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
SETAVIN PA			
Ionicity	anionic	combination of alkylamine ethoxylates and alkyl benzene sulphonates	standard levelling agent for the dyeing of polyamide with acid, metal complex and direct dyestuffs, discontinuous and continuous processes
Substrate	polyamide		
			
SETAVIN KS			
Ionicity	non-ionic	alkylamine ethoxylate	universal levelling agent for the dyeing with acid and 1:2 metal complex dyestuffs, also for differential dyeing
Substrate	polyamide		
			
SETAVIN PNT			
Ionicity	anionic	alkyl aryl sulphonate	levelling agent for the dyeing of polyamide with acid dyestuffs below boiling temperature, excellent coverage of barriness
Substrate	polyamide		
SETAVIN TAPE conc			
Ionicity	anionic	alkane sulphonate	special levelling agent for the continuous dyeing of polyamide tapes
Substrate	polyamide		
SETAVIN DEG			
Ionicity	non-ionic	fatty acid ethoxylate	levelling and dispersing agent for the dyeing of polyamide with disperse dyestuffs
Substrate	polyamide		



LEVELLING AGENTS/CARRIER

wool


PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
SETAVIN CNA			
Ionicity	cationic	alkylaminopolyglycoether	reduces the uptake rate and improves the migration, it acts both during temperature rise and during the permanence at boiling, GOTS certifiid
Substrate	wool	 	universal standard product for the dyeing of wool with acid and premetallized dyestuffs
SETAVIN RE			
Ionicity	amphoteric	alkylaminopolyglycoether	reduces the absorption rate, improves exhaustion, levels wool with different affinity, avoids dyestuff deposits and improves the rubbing fastness, improves reproducibility
Substrate	wool		levelling agent for the dyeing of wool, also anti-shrink wool, with reactive dyestuff
SETAVIN RWP			
Ionicity	anionic	sulphonic acid derivate	reduces the uptake rate and improves the migration, levels the affinity difference in order to obtain tone on tone colours
Substrate	wool, polyamide		levelling and reserving agent for the dyeing of wool/polyamide
SETAVIN ZA			
Ionicity	amphoteric	sulphate of alkylaminopolyglycoether	reduces the uptake rate and improves the migration, it acts both during temperature rise and during the permanence at boiling, very good dispersing power in dyeing of WO/PES and WO/PAC, GOTS certifiid
Substrate	wool/polyester, wool/polyacrylonitrile	 	levelling and reserving agent for the dyeing of WO/PES and WO/PAC with premetallized dyestuff
SETAVIN TTLB			
Ionicity	non-ionic	alkylaminopolyglycoether with softener	reduces the dyeing temperature to 80-85°C, guarantees the same level of fastness, evenness and shades as in the standard process, reduces wool felting, reduces wool yellowing, makes wool easier to spin
Substrate	wool		special levelling agent for the dyeing of wool at low temperatures, mainly for staple and combed sliver

LEVELLING AGENTS/CARRIER


wool

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
SETAVIN MSN			
Ionicity	non-ionic	 	reduces the absorption rate, migration promoting, good wetting and dispersing properties, no selective influence on the dyestuff yield, low foaming, GOTS certified
Substrate	wool		

cellulose

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
SETAVIN DF			
Ionicity	non-ionic	lowers the absorption rate, improves the migration at final temperature, very low retarding effect, good dispersing and emulsifying capacity	levelling agent for direct dyestuffs
Substrate	cellulosics		
SETAVIN KE			
Ionicity	non-ionic		levelling agent for vat dyestuffs as well as direct dyestuffs
Substrate	cellulosics		

SETAVIN RCO

Ionicity	anionic	combination of a nitrogen derivative with polycarboxylic acids, alkyl aryl sulphonate and inorganic salts 	ph regulating, dispersing, sequestering properties, protective colloid, low foaming, GOTS certified
Substrate	cellulosics		

LEVELLING AGENTS/CARRIER

acrylic




PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION	
SETAVIN LSP				
Ionicity	cationic	quaternary ammonium	reduces the uptake rate,	levelling agent with blocking effect for acrylic fibres
Substrate	polyacrylonitrile	compound	promotes migration and evenness	
SETAVIN ZAC				
Ionicity	cationic	quaternary ammonium	reduces the uptake rate, pro-	levelling agent for acrylic fibres
Substrate	polyacrylonitrile	derivate	motes migration and evenness, non-blocking action	

CREASE PREVENTING AGENTS

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
LUBATEX ECS				
Ionicity	non-ionic	polyacrylamide		foamless, shear stable, no retarding effect, high salt stability, resistant to acids and alkalis, GOTS certified
Substrate	cellulosics			
LUBATEX LV conc				
Ionicity	non-ionic/ slightly anionic	fatty acid condensation product	 	foamless, concentrated, universal crease preventing agent; electrolyte stable; stable to acid and alkali, GOTS certified
Substrate	polyester, polyamide, wool, cellulosics			
LUBATEX RUN				
Ionicity	non-ionic	mixture of hydrophilic polymers and fatty acid condensation product		special crease preventing agent with additional benefits (smoothness, hydrophilicity, soil release, antistatic), GOTS certified
Substrate	polyester, polyamide, wool			
LUBATEX SZ conc				
Ionicity	slightly anionic	emulsified fatty material based product		concentrated crease preventing agent, enables higher loading of goods in the machineries, suitable to protect fine fabrics
Substrate	wool, silk			
PROTELAN AF				
Ionicity	non-ionic	aqueous dispersion of polymer with high molecular weight		special crease preventing agent, protects from felting during wet processes, low foaming, no effect on any dyestuff
Substrate	wool			
LUBATEX A25				
Ionicity	non-ionic	polyamide derivatives		crease preventing agent with good lubricating and antistatic power, gives hydrophilicity to fibre, non-yellowing
Substrate	synthetics			

AFTERTREATMENT AGENTS






polyester

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAL NWM				
Ionicity	anionic	carboxylic acid derivatives	  excellent improvement of wet fastness properties, fastness to rubbing and to organic solvents, GOTS certified	clearing agent to improve fastness properties by using ZS Clearing System
Substrate	polyester			
ZETESAL NPC				
Ionicity	anionic	carboxylic acid derivatives	 excellent improvement of wet fastness properties, GOTS certified	clearing agent to improve fastness properties by using the ZS Reactiveflash System
Substrate	polyester			
PROTELAN UV-PE				
Ionicity	anionic	benzotriazole derivate	improves the FAKRA light fastness, no effect on shade	light fastness improving agent for polyester for automotive
Substrate	polyester			
PROTELAN UV-TH				
Ionicity	anionic	benzophenone derivate	improves the FAKRA light fastness, no effect on shade	light fastness improving agent for polyester for automotive, with thermosol dyeing process
Substrate	polyester			



AFTERTREATMENT AGENTS

polyamide

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAL NR				
Ionicity	anionic	polycondensation product of aromatic sulphonic acids	excellent wet fastness properties, universal use, jet stable, no influence on light fastness and shade, for highest quality requirements	improvement of wet fastness of dyeings and printings on polyamide with acid dye-stuffs; reserving agent for PA/wool and PA/cellulosic blends, process: jet or continuous dyeing
Substrate	polyamide			
ZETESAL NR gold+				
Ionicity	anionic	polycondensation product of aromatic sulphonic acids	excellent wet fastness properties, universal use, jet stable, no influence on light fastness and shade, substantially lower yellowing of the treated goods, for highest quality requirements, fresh odour	improvement of wet fastness of dyeings and printings on polyamide with acid dye-stuffs; reserving agent for PA/wool and PA/cellulosic blends, process: jet or continuous dyeing
Substrate	polyamide			
ZETESAL NR gold+ liq				
Ionicity	anionic	polycondensation product of aromatic sulphonic acids	excellent wet fastness properties, dosable, jet stable, no influence on light fastness and shade, substantially lower yellowing of the treated goods, for highest quality requirements, fresh odour	improvement of wet fastness of dyeings and printings on polyamide with acid dye-stuffs; reserving agent for PA/wool and PA/cellulosic blends, process: jet or continuous dyeing
Substrate	polyamide			
ZETESAL FAP				
Ionicity	anionic	polycondensation product of aromatic sulphonic acids	non-yellowing, universal use, no influence on light fastness, shade and handle, for high quality requirements, GOTS certified	improvement of wet fastness of dyeings and printings on PA with acid dyestuffs; especially brilliant and turquoise shades, reserving agent for PA/wool and PA/cellulosic blends process: jet or continuous dyeing
Substrate	polyamide	 		


AFTERTREATMENT AGENTS

polyamide


PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAL FSA				
Ionicity	anionic	polycondensation product of aromatic sulphonic acids 	stable in acid conditions, also to concentrated acetic acid, improves wet fastness, good reserving power, no influence on light fastness and shade, no yellowing, no effect on the fastness properties by subsequent steaming and heat setting processes, compliant to OEKO-TEX Standard 100	aftertreatment and reserving agent for dyeing and printing on polyamide fibres, including carpet printings
Substrate	polyamide			
ZETESAL NT				
Ionicity	anionic	polycondensation product of aromatic sulphonic acids 	non-yellowing, universal use, no influence on light fastness, shade and handle, for high quality requirements	improvement of wet fastness of dyeings and printings on PA with acid dyestuffs; reserving agent for PA/wool and PA/cellulosic blends process: jet or continuous dyeing
Substrate	polyamide			
ZETESAL TCS				
Ionicity	cationic	polyamine 	universal use, jet stable, for highest standards of wet fastness properties; applied in the double fixing process (anionic/cationic)	aftertreatment agent for improving the wet fastness properties, in particular the fastness to water and perspiration, of dyed polyamide and wool as well as their mixtures with elastane
Substrate	polyamide			
ZETESAL CPW				
Ionicity	cationic	polyamine 	universal use, jet stable, for highest standards of wet fastness properties; applied in the double fixing process (anionic/cationic)	aftertreatment agent for improving the wet fastness properties, in particular the fastness to water and perspiration, of dyed polyamide and wool as well as their mixtures with elastane
Substrate	polyamide, wool			

AFTERTREATMENT AGENTS

polyamide

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAL F conc			
Ionicity	cationic	polyamine	universal use, jet stable, for highest standards of wet fastness properties; applied in the double fixing process (anionic/cationic)
Substrate	polyamide, wool		
PROTELAN UV-PA			
Ionicity	anionic	compound of copper mixed with protectors	improves the FAKRA light fastness, no influence on wet fastness and handle
Substrate	polyamide		light fastness improving agent for polyamide

cellulose

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAL 2000			
Ionicity	cationic	quaternary ammonium compound	improvement of wet fastness of reactive dyeings and printings; padding or exhaust process
Substrate	cellulosics		
ZETESAL FIX			
Ionicity	cationic	quaternary ammonium compound	improvement of wet fastness of reactive dyeings and printings; padding or exhaust process
Substrate	cellulosics	 	
ZETESAL WER			
Ionicity	cationic	quaternary ammonium compound	improvement of wet fastness of reactive dyeings and printings; padding or exhaust process
Substrate	cellulosics		

AFTERTREATMENT AGENTS


cellulose

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAL CCL				
Ionicity	cationic	polyammonium compound	formaldehyde-free, concentrated product, excellent protection of reactive dyeings against influence of active chlorine in swimming pools and household detergents, also imparts good fastness to washing, GOTS certified	improvement of chlorine fastness and wet fastness of reactive dyeings and printings; padding or exhaust process
Substrate	cellulosics			
ZETESAL TCS				
Ionicity	cationic	polyamine	formaldehyde-free, no influence on light fastness and handle, especially effective on dyeing with C.I. Reactive 19 and 21	improvement of the wet fastness of direct and reactive dyeings and printings; padding or exhaust process
Substrate	cellulosics			
ZETESAL CPW				
Ionicity	cationic	polyamine	formaldehyde-free, no influence on light fastness and handle	improvement of the wet fastness of direct and reactive dyeings and printings; padding or exhaust process
Substrate	cellulosics			
ZETESAL LTS				
Ionicity	anionic	aqueous polymer solution	strongly dispersing, promotes the removal of non-fixed dyestuff, prevents redeposition, foamless, also usable in dyebath, soaping at 70°C possible for selected dyestuffs, GOTS certified	aftersoaping agent for fastness improvement of reactive dyeings and printings
Substrate	cellulosics	 		
ZETESAL NS				
Ionicity	anionic	polyacrylate	strongly dispersing, promotes the removal of non-fixed dyestuff, prevents redeposition, foamless, also usable in dyebath	aftersoaping agent for fastness improvement of reactive dyeings and printings
Substrate	cellulosics			



AFTERTREATMENT AGENTS

cellulose

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAL SR extra				
Ionicity	anionic	combination of a nitrogen derivative with polycarboxylic acid, alkyl aryl sulfonate and inorganic salts	dispersing, sequestering, promotes the removal of non-fixed dyestuff, prevents redeposition, foamless, GOTS certified	aftersoaping agent for fastness improvement of reactive dyeings and printings
Substrate	cellulosics			
				

silk

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
ZETESAL SLF				
Ionicity	cationic	quaternised ethoxylated alkylamines	excellent dispersion power, outstanding reserving effect, low foam formation, improves the fabric touch	soaping agent for wool and silk fabrics, printed with acids and premetallized dyestuffs
Substrate	silk			
ZETESAL FPO				
Ionicity	cationic	polyamine compound	improves wet fastness, especially water and perspiration, formaldehyde-free, GOTS certified	fixing agent for fastness improvement of acid dyeings
Substrate	silk			
		 		

wool

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
DEPICOL KD				
Ionicity	non-ionic	mixture of surfactants with additives and solvents	dispersing, sequestering agent, promotes the removal of non-fixed dyestuff, prevents redeposition	aftersoaping agent for fastness improvement
Substrate	wool			
PROTELAN UV-W				
Ionicity	anionic	benzotriazole sulphonate derivative	improves light fastness, reduces fibre yellowing, no influence on shade, wet fastness and handle	light fastness improving agent for wool
Substrate	wool			


CARPET COLOURATION

PRODUCT	CHEMISTRY		CHARACTERISTICS	APPLICATION
ZETESIST CD				
Ionicity	cationic	quaternary ammonium	very good reserving effects	reserving agent for displacement printing on polyamide carpets, also for acid ground dyes and acid printing dyes
Substrate	polyamide	compound	when used in alkaline printing pastes	
ZETESAL NT				
Ionicity	anionic	polycondensation product of	very good reserving effects	highly efficient reserving agent for the colour resist process
Substrate	polyamide	aromatic sulphonic acids	when used in printing pastes, no yellowing of white	
				
ZETESAL MSN				
Ionicity	non-ionic	alkylamine ethoxylate	reduces the absorption rate, migration promoting, good wetting and dispersing properties, no selective influence on dyestuff yield, low foaming	levelling compound for the space dyeing method applied to polyamide and wool
Substrate	polyamide, wool			
SETAVIN KS				
Ionicity	non-ionic	alkylamine ethoxylate	lowers the absorption rate in the heating-up phase, improves the migration, no influence on dyestuff yield	levelling and dispersing agent for the dyeing with acid, 1:2 metal complex and strongly acid dyestuffs as well as reactive dyestuffs
Substrate	polyamide			
SETAVIN PNT				
Ionicity	anionic	alkyl aryl sulphonate	high affinity for the fibre, thus lowering the absorption rate even in the dyeing of polyamide fibres with high dyestuff affinity, excellently covers material irregularities, powerful migration promotion properties, good wetting effect	excellent levelling agent for the dyeing of polyamide carpets with acid dyestuffs below boiling temperature
Substrate	polyamide			
SETAVIN PA				
Ionicity	anionic	combination of alkylamine ethoxylates and alkyl benzene sulphonates	reduces the absorption rate during the heating-up phase, levels out affinity differences on the fibre, reduces bairiness, good migrating, wetting and dispersing effects	levelling agent for the dyeing of polyamide carpets
Substrate	polyamide			

CARPET COLOURATION

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
CEFAFROST AFW			
Ionicity	anionic	combination of fatty acid condensation product and fatty alcohol ethoxylate	preventing of frosting effects by generating a fine-pored foam in an acid or alkaline pH range, excellent wetting effects, thus no extra use of a wetting agent necessary, GOTS certified
Substrate	polyamide		
anti-frosting agent for continuous dyeing and printing			

MISCELLANEOUS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
ZS-CLEANREDOX FOS			
Ionicity	-	glucose mixture 	odourless, free from sulphite, low sewage water pollution, not self-igniting
Substrate	polyester		
ecological reducing agent for reduction clearing of polyester			
ZETESAN OLE			
Ionicity	cationic	combination of quaternary compounds and polyglycol ethers	dispersing, prevents deposits of oligomers in packages and on machinery walls
Substrate	polyester		
oligomer remover and machinery cleaner			
RETENTOL BGA			
Ionicity	anionic	combination of organic derivatives of sulphur	restores the dyeability of saturated PAC fibres
Substrate	polyacrylonitrile		
unlocking, discharging agent for PAC			
PROTELAN ASA			
Ionicity	anionic	solution of a mixture of organic activators	preserves tensile strength and elongation properties of wool fibres, improves spinning behaviour, preserves a soft touch
Substrate	wool		
protective agent to avoid deterioration during dyeing of wool mainly for staple and combed sliver			
PROTELAN PFA			
Ionicity	non-ionic	polyalcohol esters	preserves tensile strength and elongation properties of wool fibres, improves spinning behavior, preserves a soft touch
Substrate	wool, wool/polyester		
protective agent for the dyeing of wool and wool/polyester at high temperatures up to 100°C			






SOFTENERS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
CEFASOFT NI			
Ionicity	non-ionic	fatty acid condensation	free from yellowing, jet stable, applicable in combination with optical brighteners, GOTS certified
Substrate	all	product	all kinds of fibres, white goods, additive for easy-care finish, pad application
CEFASOFT MIS			
Ionicity	non-ionic/cationic	amino group modified silicone micro emulsion	excellent soft touch, imparts elasticity and voluminous handle, GOTS certified
Substrate	all		all kinds of fibres, additive for easy-care finish
CEFASOFT MST			
Ionicity	non-ionic/cationic	amino group modified silicone micro emulsion	soft touch, cost-effective
Substrate	all		all kinds of fibres, pad and exhaust application
CEFASOFT SMA			
Ionicity	non-ionic/cationic	amino group modified silicone macro emulsion	permanent to washing, excellent soft touch, imparts elasticity and smoothness
Substrate	all		all kinds of fibres, additive for easy-care finish, pad application
CEFASOFT SHD			
Ionicity	non-ionic	modified siloxanes	imparts special soft touch and hydrophilicity, dyeable, especially stable in all processes, GOTS certified
Substrate	cellulosics, polyamide, polyester		cellulosic fibres and polyamide, for terry towels, sports clothing and yarn application
CEFASOFT MSR			
Ionicity	non-ionic/cationic	amino group modified reactive silicone micro emulsion	very permanent to washing, imparts elasticity and stretch recovery, excellent soft handle
Substrate	all		all kinds of fibres, additive for easy-care finish, pad and exhaust application
CEFASOFT PED			
Ionicity	non-ionic	polyethylene dispersion	softener and additive for easy-care finish, improves sewability of knitted fabric as well as tensile and tear strength
Substrate	all		all kinds of fibres, additive for easy-care finish, improves sewability

SOFTENERS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
CEFASOFT MAC			
Ionicity	non-ionic/ cationic	amino group modified silicon macro emulsion	softener and additive for easy-care finish, imparts elasticity and voluminous touch
Substrate	all		all kind of fibres, additive for easy-care finish, pad and exhausting application
CEFASOFT GW			
Ionicity	non-ionic	fatty acid condensation product and polyethylene	no yellowing, imparts very high lubricity (improves sew- ability), GOTS certified
Substrate	all		all kinds of fibres, knitwear, raising, white goods, pad application
CEFASOFT NEX			
Ionicity	weakly cationic	amino-functional polysiloxane	no foaming, very soft and woolly touch, good washing resistance
Substrate	wool, silk, polyacrylo- nitrile		for wool, silk, acrylic fibres and their blends

SOFTENERS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
<p>ADULCINOL GV</p> <p>Ionicity cationic</p> <p>Substrate all</p>	<p>fatty acid condensation product, polyethylene and paraffin</p> <p></p>	<p>stable in jets, reduces fibre-metal friction, imparts very high lubricity, GOTS certified</p>	<p>all kinds of fibres, knitwear, raising exhaust process</p>
<p>ADULCINOL EB20</p> <p>Ionicity weakly cationic</p> <p>Substrate wool, silk, polyacrylonitrile</p>	<p>mixture of fatty amides</p> <p> </p>	<p>good resistance to yellowing, good antistatic power, AEEA free, GOTS certified</p>	<p>for wool, silk, acrylic fibres and their blends</p>
<p>ADULCINOL ALD</p> <p>Ionicity cationic</p> <p>Substrate wool, polyacrylonitrile</p>	<p>fatty acid condensation product</p>	<p>no foaming, soft and woolly touch, GOTS certified</p>	<p>for acrylics, wool and their blends</p>
<p>ADULCINOL T7531</p> <p>Ionicity cationic</p> <p>Substrate all</p>	<p>quaternary ammonium compound</p> <p> </p>	<p>soft touch, good antistatic power, low foam formation, GOTS certified</p>	<p>for natural, artificial and synthetic fibres</p>
<p>ADULCINOL BML</p> <p>Ionicity cationic</p> <p>Substrate wool</p>	<p>fatty acid condensation product</p>	<p>no foaming, soft and woolly touch, good antistatic power, increases lubricity</p>	<p>for napping operations of wool, hair fibres and their blends</p>



SOFTENERS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
ADULCINOL ET			
Ionicity	cationic	fatty acid condensation	no foaming, soft and woolly touch, increases lubricity
Substrate	wool, silk, polyacrylonitrile	product and silicone	for wool, silk, acrylic fibres and their blends
ADULCINOL AMS			
Ionicity	cationic	fatty acid condensation	no foaming, very soft touch, increases lubricity
Substrate	wool, silk, polyacrylonitrile	product and silicone	for wool, silk, acrylic fibres and their blends
ADULCINOL FT			
Ionicity	cationic	fatty acid condensation	concentrated product for manufacturing "ready-for-use" softeners
Substrate	all	product	(→ ADULCINOL BUN) concentrate
CEFASOFT MC			
Ionicity	non-ionic/ cationic	amino group modified silicone micro emulsion	concentrated product for manufacturing "ready-for-use" softeners, GOTS certified (→ CEFASOFT MIS) concentrate
Substrate	all		

WATER AND OIL REPELLENTS

fluorocarbons

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
ANTHYDRIN 09 - 1030				
Ionicity	anionic	fluoro carbon resin	free from solvents, no influence on the touch of the goods	soil resistant agent with additional benefit of water and oil repellency
Substrate	all			
ANTHYDRIN SCE				
Ionicity	slightly cationic	fluoro carbon resin 	free from solvents, no influence on the touch of textiles, designed for especially good water repellency, based on C6-chemistry	durable water- and oil-repellent finishing, especially for natural fibres and their blends
Substrate	all			
ANTHYDRIN NK 6				
Ionicity	slightly cationic	fluoro carbon resin	free from solvents, curing is possible at temperatures of approx. 100-110°C, based on C6-chemistry	durable water- and oil-repellent finishing, low-temperature curing
Substrate	all			
ANTHYDRIN LEB				
Ionicity	cationic	fluoro carbon resin	free from solvents, no influence on the touch of the goods, low emission factors, BfR- and FDA-approved	durable water- and oil-repellent finishing, especially for cotton and blends, can be used for textiles with food contact
Substrate	all			
ANTHYDRIN BM				
Ionicity	cationic	fluoro carbon resin	free from solvents, no influence on the touch of the goods, designed to pass Bundesmann rain shower test	durable water- and oil-repellent finishing, universal use on all kinds of fibres
Substrate	all			
ANTHYDRIN SC				
Ionicity	slightly cationic	fluoro carbon resin 	free from solvents, no influence on the touch of the goods; based on C6-chemistry, LAD	durable water- and oil-repellent finishing, universal use on all kinds of fibres
Substrate	all			
ANTHYDRIN GP				
Ionicity	slightly cationic	fluoro carbon resin	free from solvents, no influence on the touch of the goods	durable water- and oil-repellent finishing, universal use on all kinds of fibres
Substrate	all			

WATER AND OIL REPELLENTS


PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
ANTHYDRIN VSA				
Ionicity	slightly cationic	fluorinecarbon resin	free from solvents, no influence on the touch of the goods, low temperature curing, based on C6-chemistry	durable water- and oil-repellent finishing, especially for wool and silk fibres and their blends
Substrate	wool, silk			



FLUORO-FREE WATER REPELLENTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
<p>ANTHYDRIN PSZ conc</p> <p>Ionicity slightly cationic</p> <p>Substrate all</p>	<p>hydrocarbons compound and zirconium salts</p>	<p>free from solvents, pleasant soft touch</p>	<p>non-permanent water-repellent finishing, especially for natural fibres and their blends</p>
<p>ANTHYDRIN DNF</p> <p>Ionicity cationic</p> <p>Substrate all</p>	<p>functionalized polymer</p>	<p>fluorine-free, durable, pleasant soft touch</p>	<p>fluorine-free, durable water-repellent finishing, especially for synthetic fibres and their blends</p>
<p>ANTHYDRIN FF one</p> <p>Ionicity non-ionic</p> <p>Substrate all</p>	<p>liquid silicon emulsion</p> <p> </p>	<p>fluorine-free, based on a liquid silicon emulsion, single product</p>	<p>fluorine-free water-repellent finishing agent for all kinds of fibres, durable to washing by using a crosslinking agent</p>
<p>ANTHYDRIN FF base</p> <p>Ionicity non-ionic</p> <p>Substrate all</p>	<p>liquid silicon emulsion</p> <p> </p>	<p>fluorine-free, based on a liquid silicon emulsion, part of a modular system</p>	<p>fluorine-free water-repellent finishing agent for all kinds of fibres, durable to washing by using a crosslinking agent</p>
<p>ANTHYDRIN FF soft</p> <p>Ionicity non-ionic</p> <p>Substrate -</p>	<p>amino-containing silicon dispersion</p> <p></p>	<p>part of a modular system, imparts a soft and smooth touch</p>	<p>for an individual touch within the modular system</p>
<p>ANTHYDRIN FF cat</p> <p>Ionicity -</p> <p>Substrate -</p>	<p>metalliferous catalyst formulation</p> <p></p>	<p>part of a modular system, for a better durability to washing</p>	<p>catalyst and bonding agent for fluorine-free water-repellent finishing for all kinds of fibres</p>
<p>ANTHYDRIN FF wax</p> <p>Ionicity cationic</p> <p>Substrate all</p>	<p>fat modified melamine derivate and paraffin wax</p> <p> </p>	<p>fluorine-free, single product</p>	<p>fluorine-free water-repellent finishing agent for all kinds of fibres, for bulk articles with low up to medium requirements of water repellency</p>


FLAME RETARDANTS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
<p>FLAMMEX LF</p> <p>Substrate synthetics</p>	<p>inorganic phosphorus compound</p>	<p>not permanent, fogging-free</p>	<p>flame retardant finish for synthetic fabrics</p>
<p>FLAMMEX LCP</p> <p>Substrate polyester</p>	<p>organic phosphorus compound</p> <p></p>	<p>permanent, no thermofixation necessary, no reductive cleaning necessary</p>	<p>flame retardant finish for polyester</p>
<p>FLAMMEX APP</p> <p>Substrate all</p>	<p>inorganic phosphorus and nitrogen compound</p>	<p>low water solubility</p>	<p>flame retardant finish for the combination with dispersions</p>



DISPERSIONS

polyurethanes

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
POLAPPRET PU-DM			
Ionicity	non-ionic	polyurethane 	very soft dispersion, hydrophilic, antipilling finish, nearly no influence on handle
Substrate	all		
POLAPPRET PU-H			
Ionicity	anionic	polyurethane	imparting a hard, elastic handle
Substrate	all		
POLAPPRET PU-S			
Ionicity	anionic	polyurethane 	soft, elastic handle
Substrate	all		

polyacrylates

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
POLAPPRET AC-S			
Ionicity	non-ionic	polyacrylate copolymer	soft handle, self-crosslinking, durable to washing
Substrate	all		
POLAPPRET NA			
Ionicity	non-ionic	polyacrylate copolymer	stiff but elastic handle, self-crosslinking, permanent to washing
Substrate	all		

DISPERSIONS

polyvinyl acetates

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
POLAPPRET HW			
Ionicity	slightly anionic	polyvinyl acetate copolymer	very soft handle, permanent to washing, self-crosslinking
Substrate	all		
POLAPPRET VAC-H			
Ionicity	slightly anionic	polyvinyl acetate copolymer	filling finish imparting a relatively hard handle
Substrate	all		
POLAPPRET HNH			
Ionicity	non-ionic	polyvinyl acetate	very stiff handle, not permanent to washing
Substrate	all		







Eco logic!



PRODUCTS FOR BACK COATING OF TUFTED CARPETS

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
ELACTIV 1307			
Ionicity	anionic	carboxylic acid and polymers	meets requirements according to EN 1307 (after spray extraction cleaning), no effect on delamination
Substrate	polyamide		antistatic agent for latex back coating of tufted carpets and needle felt
ELACTIV KH			
Ionicity	anionic	carboxylic acid and polymers	no effect on delamination and bonding of tufts
Substrate	polyamide		antistatic agent for latex back coating of tufted carpets and needle felt
ELACTIV KE			
Ionicity	anionic	carboxylic acids	no effect on delamination and bonding of tufts
Substrate	polyamide		antistatic agent for latex back coating of tufted carpets and needle felt
FLEROGUM FC			
Ionicity	anionic	sulphosuccinate	decreases surface tension of latex compounds for better wetting of the pile yarn
Substrate	synthetics		wetting agent for the latex back coating of tufted carpets and needle felt
FLEROGUM B4			
Ionicity	-	amphoteric surfactants	universally applicable foam additive
Substrate	all	 	stabiliser and foamer for latex foam back coating of tufted carpets and needle felt






DEFOAMER

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
CONTRIPON MD			
Ionicity	non-ionic	hydrocarbons	concentrated product for all purposes, free from silicone
Substrate	all		foam killing, reducing and preventing
CONTRIPON W-P			
Ionicity	non-ionic	polysiloxane	concentrate, stable in storing, universal application
Substrate	all		foam killing, reducing and preventing
CONTRIPON S			
Ionicity	non-ionic	modified polysiloxane emulsion	defoamer with outstanding shear, temperature and pH stability
Substrate	all		foam killing, reducing and preventing
CONTRIPON BD			
Ionicity	non-ionic	combination of plant oils and emulsifiers	very good biodegradability, free from silicone- and mineral oils
Substrate	all	 	foam killing, reducing and preventing

CROSSLINKER

PRODUCT	CHEMISTRY	CHARACTERISTICS	APPLICATION
POLAPPRET VIB			
Ionicity	-	formaldehyde-free, blocked isocyanate	deblocks at 150°C
Substrate	all		crosslinker for polyacrylate-polyurethane dispersions and fluorocarbons
POLAPPRET HST			
Ionicity	-	blocked isocyanate	formaldehyde-free, stable to yellowing
Substrate	all		crosslinker for dispersions and pigment printing

SPECIAL FINISHING PRODUCTS

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
CEFATEX PE				
Ionicity	non-ionic	hydrophilic copolymer	 	improves wearing comfort by improving touch, hydrophilic properties and elasticity, better moisture transmission, antistatic properties, lower soil redeposition, easier stain removal
Substrate	polyester			
CEFATEX PAM				
Ionicity	non-ionic	aqueous preparation of hydrophilic polymers	 	improves hydrophilicity of aftertreated hydrophobic polyamide, antistatic properties, better moisture transmission
Substrate	polyamide			
VOLTURIN TP 3000				
Ionicity	anionic	alkyl phosphate		antistatic agent especially for synthetics
Substrate	synthetics			
SANFOROL TC				
Ionicity	anionic	ester sulphonate and polyethylene	sanforizing agent with very good softening and smoothing properties for cellulose fibres and their blends with synthetics	CO and CO blends
Substrate	cotton			
CARBOLAN DL				
Ionicity	anionic	polyacrylate	thickens in alkaline medium (pH 8-10)	thickener for coatings
Substrate	all			
CARBOLAN SAB				
Ionicity	non-ionic	natural organic polymer	thickens in acid medium (pH 5)	high viscosity thickening agent suitable for space-dyeing and carpet printing
Substrate	all			
CARBOLAN RE				
Ionicity	anionic	sodium alginate	use in stock thickener solution with OPTAVON A and water	thickener for printing on cellulose fibres with reactive dyes
Substrate	cellulosics			

SPECIAL FINISHING PRODUCTS

PRODUCT		CHEMISTRY	CHARACTERISTICS	APPLICATION
DUROZELL FL				
Ionicity	anionic	monoethanolamine sulphite and additives	chemical fixing of wool, anti-crease power, reduces pilling	wool fibres, pad application
Substrate	wool			
SILSOL S230				
Ionicity	cationic	colloidal silica in aqueous dispersion	high cohesion power, improves adhesiveness between threads, special touch for silk and viscose	anti-slipping agent for wool, silk and viscose
Substrate	wool, silk, viscose			



CERTIFICATES/COMPLIANCES

PRODUCT	BLUESIGN	GOTS	ZDHC*	OEKO-TEX STANDARD 100**
ADULCINOL ALD			▽	▼
ADULCINOL AMS			▽	▼
ADULCINOL BML			▽	▼
ADULCINOL EB20	▼		▽	▼
ADULCINOL ET			▽	▼
ADULCINOL FT			▼	▼
ADULCINOL GV	▼	▼	▼	▼
ADULCINOL T7531	▼		▽	▼
ALKASET AOB			▽	▼
AMPHOTEX MB23			▽	▼
ANTHYDRIN BM			▽	▼
ANTHYDRIN DNF			▽	▼
ANTHYDRIN FF ONE	▼		▽	▼
ANTHYDRIN FF BASE	▼		▽	▼
ANTHYDRIN FF SOFT			▽	▼
ANTHYDRIN FF CAT			▽	▼
ANTHYDRIN FF WAX	▼		▽	▼
ANTHYDRIN GP			▽	▼
ANTHYDRIN LEB			▽	▼
ANTHYDRIN NK6			▽	▼
ANTHYDRIN PSZ CONC			▽	▼
ANTHYDRIN SC	▼		▽	▼
ANTHYDRIN SCE	▼		▽	▼
ANTHYDRIN VSA			▽	▼
ANTHYDRIN 09-1030			▽	▼
CARBOLAN DL			▽	▼
CARBOLAN RE			▽	▼
CARBOLAN SAB			▽	▼
CEFAFROST AFW		▼	▼	▼
CEFAMIG MP			▽	▼
CEFAPAD WAT	▼		▼	▼
CEFASOFT GW		▼	▽	▼
CEFASOFT NI			▽	▼
CEFASOFT MAC			▽	▼
CEFASOFT MC		▼	▽	▼

* ▽ Products comply to ZDHC MRSL
 ▼ registered to ZDHC Chemical Gateway
 ** ▼ Products comply to classes I-IV

CERTIFICATES/COMPLIANCES

PRODUCT	BLUESIGN	GOTS	ZDHC*	OEKO-TEX STANDARD 100**
CEFASOFT MIS		▼	▼	▼
CEFASOFT MSR	▼		▼	▼
CEFASOFT MST			▽	▼
CEFASOFT NEX			▽	▼
CEFASOFT PED	▼		▽	▼
CEFASOFT SHD	▼	▼	▼	▼
CEFASOFT SMA			▽	▼
CEFATEX ENN	▼	▼	▼	▼
CEFATEX PAM	▼		▼	▼
CEFATEX PE	▼		▼	▼
CELLANA GB			▽	▼
CELLANA PRS			▽	▼
CELLANA RV			▽	▼
CELLANA VAW			▽	▼
CONDISOL GP			▽	▼
CONTRIPON BD	▼	▼	▽	▼
CONTRIPON MD	▼		▽	▼
CONTRIPON S	▼	▼	▼	▼
CONTRIPON W-P		▼	▼	▼
DEPICOL KD			▽	▼
DEPICOL ND			▼	▼
DUROZELL FL			▽	▼
ELACTIV KE			▽	▼
ELACTIV KH			▽	▼
ELACTIV QD25			▽	▼
ELACTIV 1307			▽	▼
ENSIMOL BC			▽	▼
ENSIMOL KW conc		▼	▼	▼
ENSIMOL PB6			▽	▼
ENSIMOL WAX			▽	▼
FLAMMEX APP			▽	▼
FLAMMEX LCP			▽	▼
FLAMMEX LF			▽	▼
FLEROGUM B4	▼		▽	▼
FLEROGUM FC	▼		▽	▼

CERTIFICATES/COMPLIANCES

PRODUCT	BLUESIGN	GOTS	ZDHC*	OEKO-TEX STANDARD 100**
FLEROL BW			▽	▼
FLEROL FNE			▽	▼
FLEROL CS 45			▽	▼
FLEROL KFN conc			▽	▼
FLEROL KFC	▼	▼	▽	▼
FLEROL MX21			▽	▼
FLEROL PLM			▽	▼
FLEROL PP			▽	▼
KATAMIN BW 3.0	▼	▼	▼	▼
KATAMIN EP			▽	▼
KATAMIN GV			▽	▼
KATAMIN UNI	▼	▼	▼	▼
LUBATEX A25			▽	▼
LUBATEX ECS	▼	▼	▼	▼
LUBATEX LV conc	▼	▼	▼	▼
LUBATEX RUN	▼	▼	▽	▼
LUBATEX SZ conc			▽	▼
NEWALOL CL			▽	▼
NEWALOL PFN	▼	▼	▼	▼
NEWALOL SPEZIAL			▽	▼
OPTAVON BAS	▼	▼	▽	▼
OPTAVON CL			▽	▼
OPTAVON DSQ			▽	▼
OPTAVON F LIQ			▽	▼
OPTAVON FE conc	▼	▼	▼	▼
OPTAVON LTB	▼		▼	▼
OPTAVON MEL	▼	▼	▽	▼
OPTAVON MEX	▼	▼	▼	▼
OPTAVON NW	▼	▼	▼	▼
OPTAVON SV	▼	▼	▼	▼
OPTAVON 4UD	▼	▼	▼	▼
PROTELAN AF			▽	▼
PROTELAN ASA			▽	▼
PROTELAN AY			▽	▼
PROTELAN ATY-P	▼		▽	▼

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CERTIFICATES/COMPLIANCES

PRODUCT	BLUESIGN	GOTS	ZDHC*	OEKO-TEX STANDARD 100**
PROTELAN CEL			▼	▼
PROTELAN CF 2	▼	▼	▼	▼
PROTELAN LG 55			▽	▼
PROTELAN LGA	▼	▼	▼	▼
PROTELAN LGE	▼		▽	▼
PROTELAN LGS plus	▼		▼	▼
PROTELAN PFA			▽	▼
PROTELAN UV-PA			▽	▼
PROTELAN UV-PE			▽	▼
PROTELAN UV-TH			▽	▼
PROTELAN UV-W			▽	▼
POLAPPRET AC-S			▽	▼
POLAPPRET HNH	▼		▼	▼
POLAPPRET HST			▽	▼
POLAPPRET HW			▽	▼
POLAPPRET NA			▽	▼
POLAPPRET PU-DM	▼		▽	▼
POLAPPRET PU-H			▽	▼
POLAPPRET PU-S	▼		▽	▼
POLAPPRET VAC-H			▽	▼
POLAPPRET VIB			▽	▼
REDUSCOUR SILK			▽	▼
REDUSTAB KOS	▼		▽	▼
REDUSTAB OS		▼	▼	▼
REDUZIN WO			▽	▼
RETENTOL BGA			▽	▼
SANFOROL TC			▽	▼
SETACID AB conc	▼	▼	▼	▼
SETACID PAS	▼		▼	▼
SETAVIN CNA	▼		▽	▼
SETAVIN DEG			▽	▼
SETAVIN DF			▽	▼
SETAVIN KE	▼	▼	▽	▼
SETAVIN KS	▼		▼	▼
SETAVIN LSP			▽	▼

CERTIFICATES/COMPLIANCES

PRODUCT	BLUESIGN	GOTS	ZDHC*	OEKO-TEX STANDARD 100**
SETAVIN MIG			▽	▼
SETAVIN MSN	▼		▼	▼
SETAVIN PA	▼		▼	▼
SETAVIN PE	▼	▼	▼	▼
SETAVIN PNT			▼	▼
SETAVIN RCO	▼	▼	▼	▼
SETAVIN RE			▽	▼
SETAVIN RWP			▽	▼
SETAVIN SU-E	▼		▼	▼
SETAVIN TAPE conc			▽	▼
SETAVIN TTLB			▽	▼
SETAVIN ZA	▼		▽	▼
SETAVIN ZAC			▽	▼
SETAVIN 3D			▽	▼
SILSOL S230			▽	▼
SILSOL 130			▽	▼
SILSOL 330			▽	▼
SINCAL F		▼	▽	▼
SINCAL MARS FLAKES			▽	▼
SUPRALAN LMW			▽	▼
SUPRALAN FZB			▽	▼
TISSOCYL CFD CONC			▽	▼
TISSOCYL CT			▽	▼
TISSOCYL DLF	▼		▼	▼
TISSOCYL JT			▽	▼
TISSOCYL NMP	▼	▼	▽	▼
TISSOCYL POW			▽	▼
TISSOCYL RC 9	▼	▼	▼	▼
TISSOCYL RLB	▼		▼	▼
TISSOCYL TBL			▽	▼
TORSINOL ZSB	▼		▽	▼
VOLTURIN LH05			▽	▼
VOLTURIN T05			▽	▼
VOLTURIN TP 3000	▼		▽	▼
ZETESAL CCL	▼	▼	▼	▼

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CERTIFICATES/COMPLIANCES

PRODUCT	BLUESIGN	GOTS	ZDHC*	OEKO-TEX STANDARD 100**
ZETESAL CPW	▼		▼	▼
ZETESAL F CONC	▼		▼	▼
ZETESAL FAP	▼	▼	▼	▼
ZETESAL FIX	▼	▼	▼	▼
ZETESAL FPO	▼		▽	▼
ZETESAL FSA			▽	▼
ZETESAL LTS	▼	▼	▼	▼
ZETESAL MSN			▽	▼
ZETESAL NPC	▼	▼	▼	▼
ZETESAL NR	▼		▼	▼
ZETESAL NR gold +	▼		▼	▼
ZETESAL NR gold + liq	▼		▼	▼
ZETESAL NS			▽	▼
ZETESAL NT	▼		▼	▼
ZETESAL NWM	▼	▼	▼	▼
ZETESAL SLF			▽	▼
ZETESAL SR extra	▼	▼	▼	▼
ZETESAL TCS	▼		▼	▼
ZETESAL WER	▼	▼	▽	▼
ZETESAL 2000	▼	▼	▼	▼
ZETESAN DAV			▽	▼
ZETESAN DHT	▼		▽	▼
ZETESAN DN			▽	▼
ZETESAN KA	▼		▽	▼
ZETESAN OLE			▼	▼
ZETESAN 3D			▽	▼
ZETESIST CD	▼		▼	▼
ZS-CLEANREDOX BFW			▽	▼
ZS-CLEANREDOX FOS	▼	▼	▼	▼
ZS-DYESET RFT	▼	▼	▼	▼
ZS-ECOCARRIER CAB	▼		▼	▼



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