

PRETREATMENT / DESIZING

	Ionic Character	pH	Appearance	General properties and uses
OPTICLEAR NF	N	7–8	Liquid	Low foaming wetting-/scouring agent. For the combined desizing of jeans with amylase
OPTICLEAR HM	N	7–8	Liquid	Highly concentrated scouring and dispersing agent. Excellent anti-backstaining properties
CREASEX JG	N	4–6	Liquid	Crack-mark inhibitor. Avoids creases during desizing or dyeing of textiles
CREASEX MP	N	4–6	Liquid	Crack-mark inhibitor. Avoids creases during desizing or dyeing of textiles. Low foaming
AMYLASE TLP	N	5–7	Liquid	Bacterial-amylase for desizing of textiles/ jeans. Activities 30–240 KNU/gr. Application temperatures 55–75°C
AMYLASE MULTI-L	N	5–7	Liquid	Multi-purpose amylase. Can be used at temperatures from 25°C upto 80°C and a pH from 5.0–10.0
AMYLASE TLP 80 HT	N	5–7	Liquid	Concentrated thermo-stable bacterial-amylase Application temperatures upto 105°C
DISPERGATOR NT-CONC	N	7	Powder	Anti-backstaining agent Ethoxylated surfactants
DESIZER MULTI-P	N	6–7	Powder	Multi-purpose product for desizing. Combined product of wetting-/scouring-/dispersing agent and amylase
PRE-WASH ATL	N	6	Liquid	Multi-purpose product for desizing Combined product of wetting-/scouring-/dispersing agent, amylase and lubricant

STONE—WASH TREATMENT

NEUTRAL CELLULASE SYSTEMS FOR TREATMENT OF JEANS/GARMENTS

	Operational pH	Operational Temperature	Appearance	General properties and uses
POWER-WASH PSP	6.0–7.0	55–60°C	Powder granulate	Compound with built-in anti-backstaining system and buffer
PW ULTIMA-HT	7.0	45–60°C	Powder granulate	Compound with built-in anti-backstaining system and buffer. Stable upto pH 8.0
PW ULTIMA-LT	7.0	30–50°C	Powder granulate	Compound with built-in buffer and anti-backstaining system. Application at <u>low temperatures</u> . Should be used with pumice
POWER-WASH MULTI	6.0–7.0	40–50°C	Powder granulate	Neutral cellulase system with buffer and anti-backstaining properties. Application at low/ medium temperatures
POWER-WASH P-75	6.0- 7.0	40–55°C	Powder granulate	Compound with built-in buffer and anti-backstaining system. Application at <u>low temperatures</u> .

CELLULASE SYSTEMS FOR TREATMENT OF JEANS/GARMENTS AT LOW TEMPERATURES

	Operational pH	Operational Temperature	Appearance	General properties and uses
BB COLD	5.0–5.8	30–50°C	Powder granulate	Semi-acid compound with buffer and anti-backstaining system. Outstanding anti-backstaining performance. Short cycle thus energy saving
BB-COLD LIQUID	5.0–5.8	30–50°C	Liquid	Semi-acid product. pH has to be set with an adequate buffer system. Outstanding anti-backstaining performance

ACID CELLULASE SYSTEMS FOR STONE-WASH OF JEANS/GARMENTS

	Operational pH	Operational Temperature	Appearance	General properties and uses
BROZYM SB	4.5–5.0	50–55°C	Liquid	For stone-wash and bio-polishing of cotton textiles
BROZYM SBS	4.5–5.0	50–55°C	Liquid	For stone-wash with <u>considerably less</u> backstaining than usual acid Cellulases. High abrasion level

CELLULASE SYSTEMS FOR BIO-POLISHING OF JEANS/GARMENTS

	Operational pH	Operational Temperature	Appearance	General properties and uses
BROZYM SB	4.5–5.0	50–55°C	Liquid	For stone-wash and bio-polishing of cotton textiles
BROZYM COL	5.0–5.5	50–55°C	Liquid	Especially developed for bio-polishing without shade change

ANTI-BACKSTAINING SYSTEMS

	Ionic Character	pH	Appearance	General properties and uses
BB-NT	N	7	Liquid	Surfactant with excellent dispersing and anti-backstaining properties on cotton. Can be used in desizing and stone-wash.
BB-NTM	N	7	Liquid	Anti-backstaining agent for polyester and polyester/cotton. Can be used during desizing and stone-wash
BB-NTV	N	7	Liquid	Anti-backstaining agent for polyester and polyester/cotton. Can be used during desizing, stone-wash and after-wash
BB-NTC	N	7	Powder	Powder formulation of BB-NTV

POST-TREATMENT

	Ionic Character	pH	Appearance	General properties and uses
OPTICLEAR PA	N	8-10	Powder	Soaping agent for heavily stained garments. Ideal for after-treatment of garments stone-washed with acid cellulase
OPTICLEAR NF	N	7– 8	Liquid	Alkali-stable scouring agent. The product does not foam at high temperatures as well as low temperatures
OPTICLEAR AS	A	7– 8	Liquid	Sodiumalkylbenzenesulphonate. Surfactant with high wetting power, good detergency and cleaning power

SOFTENING

	Ionic Character	pH	Appearance	General properties and uses
SOFTY-FINISH JC	C	5 - 6	Liquid	Softener for jeans. Soft and bulky handle.
SOFTY-FINISH OK NEW	C	5 - 6	Liquid	Special finishing agent to control decoloration of Indigo by ozon. Excellent soft, bulky handle. Antistatic properties.
SOFTY-FINISH OZN	C	5 - 6	Liquid	Anti-ozon softener for Indigo dyed garments. Soft, smooth handle. Good hydrophility
SOFTY-FINISH ME	N	5 - 6	Liquid	Silicone micro-emulsion for softening jeans/ garments. Excellent mechanical stability (not jet-stable). Good hydrophility. Soft and smooth handle. Good washing fastness.
SOFTY-FINISH ME CONC	N	5 - 6	Liquid	As SOFTY-FINISH ME, however more concentrated
SOFTY-FINISH SIL	N	5 - 6	Liquid	Silicone macro-emulsion for softening of jeans. Excellent mechanical stability. Soft and smooth handle. Good washing fastness.
SOFTY-FINISH VIS	C	5 - 6	Liquid	Blend of amino silicones, fatty-acid amines and polymers. Due to the presence of cationic fatty-acid amine faster exhaustion than with pure silicone.
SOFTY-FINISH C-100	C	5 - 6	Pearls	Concentrated fatty-acid softener. <u>Cold water soluble</u> . 100 % active solids. Application temperature: Cold

	Ionic Character	pH	Appearance	General properties and uses
SOFTY-FINISH NI	N	5 - 6	Liquid	Nonionic softener for cotton and polyester/cotton blends. No yellowing on whites.
SOFTY-FINISH NI -100	N	5 - 6	Pearls	Concentrated nonionic softener for cotton and polyester/cotton blends. 100 % active solids. To dilute the product water of 60-80°C is required.
SOFTY-FINISH JET-S	N/C	5	Liquid	Jet-stable silicone micro-emulsion. Excellent hydrophility.
SOFTY-FINISH PE	N	5-7	Liquid	Polyethylene emulsion. Recommended to use in resin finishing to soften the handle and reduce the loss of tensile strength
SOFTY-FINISH E	N/C	5-6	Liquid	Self crosslinking silicone elastomer. Imparts a full, soft handle. "Wash and wear" performance is being improved as well as the elastic recovery in particular on knits. Excellent dry-cleaning and washing fastness

SPECIALTIES

	Ionic Character	pH	Appearance	General properties and uses
OXYCLEAR L	N	5 - 6	Liquid	Enzymatic system to eliminate hydrogen peroxide as a replacement of reducing agents
OPTIFIX DR	C	5 - 6	Liquid	Fixing agent for dyeings with direct or reactive dyes. Aliphatic polyamine compound. <u>Formaldehyde free</u> . No or limited change of lightfastness and shade. Also excellent for pre-cationizing
INDIGOFIX R-NEW	C	3 - 5	Liquid	Polymer for fixation of Indigo. Improvement of rubbing fastness and washing fastness. The indigo colour remains dark after washing. In combination with the TERRACOL ABC-system significant further improvement of rub- and washing fastness. Colour as dark, or even darker than raw denim.
TERRACOL ABC	3 component polymer system to reproduce the colour of indigo-dyed raw-denim. Dark colours on desized jeans resp. jeans with a light wash-out effect are possible. Application by spraying, preferably on desized jeans. To achieve a maximum improvement of the rubbing fastness and at the same time darkening of the indigo-colour, a combination with INDIGOFIX R-NEW is recommended. Full, soft, bulky handle			

	Ionic Character	pH	Appearance	General properties and uses
TERRACOL DC	C	5–6	Liquid	Fixing agent for dyeings with direct or reactive dyes. Excellent for pre-cationization in combination with direct dyes
TERRACOL PIGMENT	C	4–6	Liquid	Special polymer for pre-cationizing pigment dyeings. Crosslinking system
STABILIZER HPO	A	10-11	Powder	Developed for a good and safe bleaching with hydrogen peroxide. For application on winches, jets and open-end washing machines. Blend of inorganic and organic substances. All in one system.
PHOBOGUARD WRD	C	4 - 5	Liquid	Durable waterrepellent for all fibres. Can be applied in regular washing machines by exhaust. Excellent washing fastness. Not durable in dry-cleaning. Curing oven required.
SEQUESTROL SN	A	8	Liquid	Special dispersant and sequestrant. Eliminates problems with waxes, pectinates and precipitated solids caused by hard water e.g. calcium and magnesium. Will not impair any longer the solubility of anionic dyes and their affinity to cotton. Perfect dyeings with direct or reactive dyes are possible
TERRACOL PI	A	9	Paste	Ready-to-use coating paste. Blended with pigment dyes very special effects can be achieved. "Waxy" but soft handle. Good washing fastness
TERRACOL GLT	A	8	Paste	Ready-to-use coating/printing paste containing gold / silver or turquoise glitters. Can also be sprayed
TLP SILK-COAT	N	7	Liquid/ Paste	Silicone elastomer. Very smooth, soft, silky handle can be achieved on all textiles by spraying or padding
TLP ULTRA-BLEACH EX-WS	N	4–5	Powder/ granulate	Bio-degradable bleaching system for indigo dyed textiles. Application temperatures: 60 - 80°C. Product attacks only indigo, not the cotton. No loss of tensile strength. Ideal for stretch and light weight garments. Super-bleach possible in one step
TLP ULTRA-BLEACH AC	N	5–7	Liquid	Activator for sodiumhypochlorite bleach. Considerable savings on chlorine dosages possible, resp. reduction of cycle time
FINISH-G	N	4–5	Powder/ Granulate	Special finishing agent to achieve a grey-cast on indigo-dyed fabrics. The cast changes from blueish to greyish. Clean up of stained garments. Improvement of contrasts. Laccase based
FINISH G-CONC	N	4–5		Same chemical formulation as FINISH G, but more concentrated. Laccase based

	Ionic Character	pH	Appearance	General properties and uses
ARCOTEX	N	4	Liquid	Developed for cold neutralisation of textiles treated with potassium-permanganate. No smell. Replaces sodiummetabisulphite
SOFTY-RUB GWS	-		Grains	Perlite grains manufactured in an extreme hardness, as a replacement of pumice stones. Less damage of washing machines and garments. "Super-stone" on light and sensitive material is possible. No more "de-stoning". Patent pending
MACHINECLEANER MC-1 & MC-2	N/A	6 - 7	Liquid	Depolymerisationcatalyst with special dispersants. MC-1 can be used to strip silicone finishes from textiles. MC-2 can eliminate oligomers, oils, greases and dyes in dyeing equipment. Combination of both products is possible.

WRINKLE FREE FINISH OF GARMENTS

Garments are being treated with a special selection of resins, catalysts, softeners and silicones in such a way that the garments do not show wrinkles after wearing and washing. They should have a good surface stability and crease recovery, Durable good handle and only limited or no ironing should be required.

WRINKLE FINISH OF GARMENTS

RESIN LF (pre-cationized glyoxal resin) or RESIN CO (pure glyoxal resin, to be blended with catalyst), for fixation of wrinkles with a good washing fastness. (60°C)