

**COTTON VISCOSE RAYON**

Sr. No	Product Name	Product Description (few lines)	Features & Benefits (4-5 pointers)	Chemical Base	Ionic Character
1	ALTRANOL-84	Altranol-84 has an excellent wetting power over the wide pH and temperature range. I	<ol style="list-style-type: none"> <li>1. Very good wetting action.</li> <li>2. Stable to alkaline and acidic liquors.</li> <li>3. Stable to metal salts and hard water.</li> </ol>	Ethoxylate & blend	Non-ionic
2	ALTRANOL-NR	Altranol-NR is a wetting cum deaerating agent for the pre-treatment and dyeing of cellulosic fibers and their blends.	<ol style="list-style-type: none"> <li>1. Excellent deaerating properties in yarn cheeses.</li> <li>2. Stable to alkali up to 30 g/l caustic soda.</li> <li>3. Phosphate free and solvent free.</li> <li>4. Non-foaming.</li> <li>5. APEO free.</li> </ol>	Polyglycol ether	Non-ionic
3	ALTRANOL-K	Altranol-K is a low foaming padding auxiliary in continuous dyeing and in the pad-jig process with cotton and polyester/cotton blend fabrics. Altranol-K improves the penetration and levelness of the dyeing. It is Ecofriendly and is free from APEO	<ol style="list-style-type: none"> <li>1. Owing to its low foam development and good wetting action, Altranol-K ensures the rapid deaeration of wound packages dyed in long liquors and thus promotes penetration of the material by the dye liquid</li> <li>2. A Concentrated anionic rapid wetting and re-wetting agent in liquid form.</li> </ol>	Salt of phosphoric acid ester	Anionic
4	Allenol EHC	Allenol-EHC is an anionic, non-foaming wetting agent for continuous and discontinuous dyeing of cellulosic fibers and their blends with synthetic fibers.	<ul style="list-style-type: none"> <li>It has as excellent wetting properties and facilitates penetration of difficult to penetrate cotton grey goods.</li> <li>Can be applied in all neutral, acid and alkaline dye liquors in exhaust &amp; continuous processes.</li> <li>No retarding effect on reactive, vat, Sulphur or direct dyes and does not impair their solubility.</li> <li>Prevents vat skinning and smears when dyeing with vat and Sulphur dyes.</li> <li>Is non-foaming under all pH conditions &amp; silicone-free.</li> </ul>	Aliphatic ester	Anionic
5	ALTRANOL-SWH	Altranol-SWH is a low foaming wetting and deaerating agent for continuous dyeing as well as exhaust application particularly for dyeing of yarn packages.	<ol style="list-style-type: none"> <li>1. Due to its excellent wetting action, thorough &amp; uniform wetting takes place in short time particularly in continuous dyeing which results into uniform shade. In exhaust application it helps to remove entrapped air thus leading to thorough wetting before addition of any other chemical. It can also be added in desizing by pad batch application to improve pick-up.</li> <li>2. Does not impair the solubility of water soluble dyes.</li> <li>3. Improves dye penetration.</li> <li>4. Low foaming &amp; hence color specks due to foam eliminated.</li> <li>5. Promotes high liquor pick up.</li> <li>6. Stable in alkaline solution up to 30 g/l caustic soda.</li> <li>7. Concentrated &amp; can be easily diluted.</li> </ol>	Based on surfactants	Anionic
6	Altranol UNI(Albaflow UNI)	ALTRANOL-UNI is a newly developed, highly efficient, silicone- and mineral-oil-free penetration accelerant showing versatile application properties for dyeing synthetics, cellulosic and wool fibers in yarn, knit and woven goods.	<ul style="list-style-type: none"> <li>Silicone- and mineral-oil-free.</li> <li>Combined wetting, de-foaming and de-aerating properties.</li> <li>No foam throughout processing.</li> </ul>	Formulation based on nonionic surfactants	Nonionic
7	ALTRAPLEX-WAK	Altraplex-WAK is a wetting agent, detergent for bleach bath additives for batch wise pretreatment and continuous immersion processes. APEO free. For scouring of wool	<ol style="list-style-type: none"> <li>1. Good enzyme compatibility.</li> <li>2. Good wetting properties, detergent, cleansing effect.</li> <li>3. High stability to oxidation and reduction bleaches.</li> <li>4. Very good stability to alkali and acid. Good stability in hard water.</li> <li>5. Alkaline kier boiling of cellulosic fibers and their blends.</li> </ol>	Based on ethoxylates	Non-ionic
8	ALLENOL-PAC	Allenol-PAC is a low foaming wetting agent and detergent with very good re-wetting action and extremely low foaming, for discontinuous & continuous pretreatment processes on cellulosic and their blends with synthetics. - Enzymatic Desizing. - Continuous/Discontinuous bleaching with hydrogen peroxide. - Alkaline Cracking of cellulosic and their blends. - Acid Cracking - Washing-off all kinds of fibers.	<ol style="list-style-type: none"> <li>1. Very good detergency and emulsifying power.</li> <li>2. Good wetting properties.</li> <li>3. Good resistance to oxidative and reductive bleaching agents.</li> <li>4. Good stability to alkali and acids.</li> <li>5. Very good compatibility with enzymes.</li> <li>6. Low foaming.</li> <li>7. Liquid, pumpable formulation. Miscible with water.</li> </ol>	Synergetic preparation of special surfactants	Non-ionic
9	Altranol LFD	Allenol-LFD is a high performance, low-foaming detergent, designed for scouring & bleaching of cotton and synthetic fibres in machines of high liquor turbulence	<ul style="list-style-type: none"> <li>Low foaming character sustained throughout heating, cooling and rinsing cycles.</li> <li>Good emulsifying properties for knitting and weaving lubricants, oils and waxes.</li> <li>Good soil-suspending and anti-re-deposition properties. Smoother running of ropes, less flotation, leading to fewer tangles and more efficient pump performance.</li> <li>Uniform extraction of oils and waxes providing consistently clean foundation for level dyeing or whiter whites.</li> </ul>	Ethoxylated fatty alcohols	Nonionic

10	ALLENOL-JET-B	Allenol-JET-B is a high performance, low-foaming detergent, designed for scouring & bleaching of cotton and synthetic fibers in machines of high liquor turbulence, e.g. Jet, Overflow & Package dyeing machines.	<ul style="list-style-type: none"> <li>☑ Smoother running of ropes, less flotation, leading to fewer tangles and more efficient pump performance.</li> <li>☑ Uniform extraction of oils and waxes providing consistently clean foundation for level dyeing or whiter whites.</li> <li>☑ Improved reproducibility, "well prepared is half-dyed".</li> <li>☑ Cost savings by improved overall dye processing. <ul style="list-style-type: none"> <li>1. Fewer spots and stains on finished goods.</li> <li>2. Cost savings possible by "Minimum - Prepare".</li> <li>3. Trouble-free liquid dispensing. Low dosages required.</li> <li>4. Minimized organic pollutant load on dye house effluent.</li> <li>5. Low foaming character sustained throughout heating, cooling and rinsing cycles.</li> </ul> </li> </ul>	Ethoxylated fatty alcohols	Non-ionic
11	ALLENOL-RW	Allenol-RW is a wetting agent and detergent with very good re-wetting action and extremely low foaming, for discontinuous pretreatment processes on cellulosic and their blends with synthetics.	<ol style="list-style-type: none"> <li>1. Very good detergency and emulsifying power.</li> <li>2. Good wetting properties.</li> <li>3. Good resistance to oxidative and reductive bleaching agents.</li> <li>4. Good stability to alkali and acids.</li> <li>5. Very good compatibility with enzymes.</li> <li>6. Low foaming.</li> <li>7. Liquid, pumpable formulation. Miscible with water.</li> <li>8. Removes oily and greasy impurities as well as sizing and soil particles.</li> <li>9. Results in a good hydrophilicity.</li> <li>10. Increases safety and reproducibility for subsequent processing stages.</li> </ol>	Synergetic preparation of special surfactants	Non-ionic
12	ALTRANOL-LRW	Altranol-LRW is a specialty scouring agent based on APEO Free surfactants for the removal of silicone oil, and wax based residues from cottons, synthetics and their blends with spandex/lycra. It is a multi-functional auxiliary which assist desizing, stain removal & shrinkage during preparation of regenerated cellulose, 100% PES and its blends by batch wise application and in continuous processing ranges.	<ol style="list-style-type: none"> <li>1. Is a powerful cleaning agent even at ambient temperatures to remove oily contamination from all substrates, ensuring clear and uniform dyeing's.</li> <li>2. It is stable to high concentration of alkalis (approx. 40 g/l of sodium hydroxide).</li> <li>3. Is free from chlorinated solvents and banned/ harmful chemicals.</li> </ol>	Based on specialty surfactants	Non-ionic
13	ALLENOL-ARW	Allenol-ARW It is a anionic high performance, low-foaming detergent, designed for scouring & bleaching of cotton and synthetic fibers in machines of high liquor turbulence, e.g. Jet, Overflow & Package dyeing machines. Suitable for continuous & discontinuous bleaching range. APEO free	<ol style="list-style-type: none"> <li>1. Smoother running of ropes, less flotation, leading to fewer tangles and more efficient pump performance.</li> <li>2. Uniform extraction of oils and waxes providing consistently clean foundation for level dyeing or whiter whites.</li> <li>3. Improved reproducibility, "well prepared is half-dyed".</li> <li>4. Good emulsifying properties for knitting and weaving lubricants, oils and waxes.</li> <li>5. Good soil-suspending and anti-re-deposition properties.</li> <li>6. Low odor, no unpleasant smell.</li> </ol>	Blend of anionic & non ionic surfactants	Anionic
14	ALTRANOL-NOVI New	Altranol-Novi New is a high quality, low foaming stabilizer based on natural minerals, especially for use in the discontinuous bleaching of cotton and cotton blended fabrics	<ol style="list-style-type: none"> <li>1. Complete, balanced bleaching assistant for single stage bleaching.</li> <li>2. Excellent stabilizer for hydrogen peroxide.</li> <li>3. Achieves excellent levels of whiteness.</li> <li>4. Enables optimum fluidities to be achieved.</li> <li>5. Good cleansing effect of cotton through special washing mechanism.</li> <li>6. Inherent lubrication properties, ensure good running of fabric during bleach process.</li> <li>7. Low foaming.</li> <li>8. APEO free.</li> <li>9. Environmentally friendly.</li> </ol>	Based on natural minerals	Anionic
15	ALLENOL-COD	Allenol-COD is an ecological bleaching compound for cotton and its blends with low COD & BOD values. Excellent emulsifying of mineral and silicone oils.	<ul style="list-style-type: none"> <li>☑ Ecological and sustainable bleaching compound low COD and BOD values.</li> <li>☑ Well balanced stabilizing of discontinuous hydrogen peroxide bleaching processes.</li> <li>☑ Very high degree of whiteness.</li> <li>☑ Low foaming, suitable for jets and continuous systems with high liquor turbulence.</li> <li>☑ Oil adsorbing effects caused by natural micro particles.</li> <li>☑ Excellent emulsifying of mineral and silicone oils.</li> <li>☑ Acts as crease inhibitor, offers a smooth and soft touch of goods doable, not gelling and thixotropic.</li> </ul>	Fatty alcohol ethoxylated	Non-ionic
16	Altranol LZ	Mineral based, phosphate-free, auxiliary for all discontinuous processes e.g. peroxide bleaching, pre-scouring elastane blends.	<ol style="list-style-type: none"> <li>1. It is a special formulation for a better protection to our water resource.</li> <li>2. It is a high quality product based on natural minerals with special dispersing agents and emulsifying components for bleaching cotton piece goods on overflow and jet units.</li> </ol>	Based on natural minerals	Nonionic
17	PRODUCT-1202	Product-1202 is a high quality, low foaming stabilizer/scouring agent based on natural minerals, sequesterant & surfactants, especially for use in the discontinuous bleaching of cotton and cotton blended fabrics.	<ol style="list-style-type: none"> <li>1. Complete, balanced bleaching assistant for single stage bleaching.</li> <li>2. Excellent stabilizer for hydrogen peroxide. Achieves excellent levels of whiteness.</li> <li>3. Good cleansing effect of cotton through special washing mechanism.</li> <li>4. Inherent lubrication properties, ensure good running of fabric during bleach process.</li> <li>7. Low foaming, APEO free, Environmentally friendly</li> </ol>	Based on natural minerals	Anionic

18	ALTRAPLEX-SBA	Altraplex-SBA is an effective multifunctional bleaching auxiliary & can effectively replace most of auxiliaries used in the conventional peroxide bleaching process. It is suitable for cotton and its blends. It can be used in various processes, such as vat dyeing, jet overflow dyeing, pad dyeing etc.	<ol style="list-style-type: none"> <li>1. Very simple operating process for scouring and bleaching treatment.</li> <li>2. It ensures a highly stable hydrogen peroxide reaction without adding other stabilizer.</li> <li>3. Non caustic soda process can protect the fabric strength in the best condition.</li> <li>4. Excellent capillary effect and wetting performance.</li> <li>5. It imparts well degreasing performance.</li> <li>6. Excellent solubility and single agent for scouring process can get the most even treated fabric, which ensure a good levelling effect in dyeing process.</li> <li>7. If choose resistance-H2O2 direct dyes, scouring-bleaching-dyeing can bath together</li> </ol>	Polysurfactant mixture	Nonionic to weakly anionic
19	Altranol ABA	Altranol-ABA is an effective multifunctional bleaching auxiliary & can effectively replace most of auxiliaries used in the conventional peroxide bleaching process. It is suitable for cotton and its blends. It can be used in various processes, such as vat dyeing and jet overflow dyeing.	<ul style="list-style-type: none"> <li>☑ Very simple operating process for scouring and bleaching treatment.</li> <li>☑ It ensures a highly stable hydrogen peroxide reaction without adding other stabilizer.</li> <li>☑ Excellent capillary effect and wetting performance.</li> <li>☑ It imparts well degreasing performance.</li> <li>☑ Excellent solubility and single agent for scouring process can get the most even treated fabric, which ensure a good levelling effect in dyeing process.</li> </ul>	Specialty surfactants & phosphonic acid derivative	Anionic
20	ALTRANOL-ODB	Altranol-ODB low temperature bleaching agent for cellulosics & its blends	<ol style="list-style-type: none"> <li>1. Reduced use of thermal energy, effective use of chemicals with corresponding reduction in the load on wastewater and in the operational load on a limited number of experienced workers in particular are of great advantage.</li> <li>2. In addition, it gives fabric a soft hand without causing damage, and having no machinery corrosion or problems in the operational environment it imparts good water absorbency, resulting from superior, uniform bleaching and scouring, which guarantee level dyeing in the following stage.</li> <li>3. One bath desize scour of Polyester, cotton &amp; blended fabrics.</li> </ol>	Blend of non-ionic and anionic surfactants with oxidative Compounds	Anionic
21	ALTRANOL-GP	Altranol-GP is a spotting agent for all fibers to remove lubricants, oils as well as spots caused by machine lubricating oils. It has effective, degreasing, wetting, stain removal & detergency action giving a very clean fiber/fabric.	<ol style="list-style-type: none"> <li>1. Emulsifies and dissolves difficult to remove oil spots.</li> <li>2. Is free of solvent and of low odor.</li> <li>3. Is suitable for discontinuous and continuous washing.</li> <li>4. Is low-foaming.</li> <li>5. No danger of halo formation</li> </ol>	Blend of specialty surfactants	Anionic
22	ALTRANOL-HPSR	Altranol-HPSR is a versatile product for one bath scouring, bleaching, stain removing of cotton synthetic and their blends.	<ol style="list-style-type: none"> <li>1. It is a specially developed auxiliary for pretreatment of textiles.</li> <li>2. It has effective, degreasing, wetting, stain removal &amp; detergency action giving a very clean fiber/fabric.</li> <li>3. It is APEO free.</li> </ol>	Ethylene oxide condensation products with non- chlorinated Solvents	Non-ionic
23	ALTRANOL-XNI	Altranol-XNI is a versatile product for one bath scouring & bleaching of cotton woven & hosiery fabric, scouring aid for wool & specialty for combined scouring & dyeing polyester fibers, yarn and fabric	<ol style="list-style-type: none"> <li>1. It is a specially developed auxiliary for pretreatment of textiles.</li> <li>2. It has effective, degreasing, wetting, stain removal &amp; detergency action giving a very clean fiber/fabric.</li> <li>3. It also serves as a machine cleaning agent</li> </ol>	Ethylene oxide condensation products with non-chlorinated solvents	Crypto anionic
24	RAP-GPX-NEW	RAP-GPX-NEW is a highly concentrated spotting agent for all fibers to remove lubricants, oils as well as spots caused by machine lubricating oils.	<ol style="list-style-type: none"> <li>1. Emulsifies and dissolves difficult to remove oil spots.</li> <li>2. Is free of solvent and of low odor.</li> <li>3. No danger of halo formation.</li> <li>4. APEO free.</li> <li>5. It has effective, degreasing, wetting, stain removal &amp; detergency action giving a very clean fiber/fabric.</li> </ol>	Blend of specialty surfactants	Non-ionic
25	Altranol-DTC	It is a mild anionic surfactant with good hard water tolerance thus improving the storage stability of amphoteric formulations.	It is a surfactant formulation for Use in Cotton Wool Rayon Synthetic Processing. Altranol-DTC has excellent detergency, high wetting & dispersing power with effective carrying capacity for soil & fats. Backed by its high compatibility, it finds wide application in the preparatory wet processing of cellulosic and synthetic fibers.	Blend of anionic and non-ionic products	Crypto anionic
26	DEFOAM-SDA	Defoam-SDA is a defoamer & antifoam based on polysiloxane, having prolonged emulsion stability.	<ol style="list-style-type: none"> <li>1. Is a versatile defoamer used in various textiles operations like jet dyeing etc. wherever foaming problem arises.</li> <li>2. It destroys the foam immediately depending upon the processing conditions such as pH, type of water and temperature of the medium.</li> </ol>	Polydimethyl siloxane	Non-ionic
27	ANTIFOAM-TDA	Antifoam-TDA is a silicone antifoam of medium viscosity, highly potent antifoam emulsion that offers excellent foam control as well as excellent compatibility in a variety of surfactant concentrates and foaming systems. Compared to common silicone defoamers, it offers exceptional foam knockdown and durability, and greater compatibility in difficult surfactant systems, e.g., such as those rich in solvents and/or electrolytes. It is used in textile processes, sizing, scouring, printing and finishing. It is used as a de-aerator cum antifoam in extreme conditions such as high temperature, alkali & electrolytes and a wide range of pH	<ol style="list-style-type: none"> <li>1. High antifoam efficiency in surfactant-rich systems.</li> <li>2. Rapid foam knockdown.</li> <li>3. Excellent foam control at temperatures up to 95°C.</li> <li>4. Long-term foam inhibition.</li> <li>5. Easy dispersion in all foam systems.</li> <li>6. Easy dispersion in hard water.</li> <li>7. Long durability in acid and alkaline conditions.</li> <li>8. No oily spots or lumps when diluted with water.</li> <li>9. Compatibility with a variety of surfactant concentrates.</li> </ol>	Polydimethyl siloxane	Non-ionic

28	ANTIFOAM-PHD	A high-performance antifoam emulsion available for multiple uses in the textile industry. A high-performance antifoam emulsion available for multiple uses in the textile industry,	<ol style="list-style-type: none"> <li>1. Highly efficient antifoam at low concentration levels (25-50 ppm).</li> <li>2. Sustained foam control throughout the process cycle.</li> <li>3. Stable at high shear.</li> <li>4. Stability to a wide range of pH and temperature conditions.</li> <li>5. Easy dispersibility. Use of the product typically creates no oily residue or agglomerates when diluted in water.</li> </ol>	Polydimethyl siloxane	Nonionic
29	DEFOAM-337	Defoam-337 is a 100% active liquid non-silicone based defoamer primarily for use in textile dyeing. It can be used in jets & other dyeing operations, printing, sizing, scouring & coating where foam control is important. Being silicone-free, it will not cause objectionable silicone residual buildup on equipment. Tests indicate that this defoamer has no adverse effect on fabric flammability.	<ol style="list-style-type: none"> <li>1. Effective in many wet processing operations including jet dyeing.</li> <li>2. Non-silicone based, No silicone flammability.</li> <li>3. Superior bath stability - no silicone spots.</li> <li>4. Effective dyebath stability in hard water.</li> <li>5. Helps keep equipment clean.</li> <li>6. Eliminate foam build up on cool-down during jet dyeing.</li> </ol>	Mineral oil fatty acid derivative	Nonionic
30	Defoam JET	De-foaming agent with de-aerating effect and penetration action.	<ol style="list-style-type: none"> <li>1. Very stable to high alkali and electrolyte concentrations</li> <li>2. High stability to shear even in HT exhaustion, suitable for machines with short liquor technology</li> <li>3. Complete removal of air through liberation of the microdisperse air bubbles entrapped in the liquor and adhering strongly to the hydrophobic fibers.</li> <li>4.</li> </ol>	Synergistic mixture of de-aerating agent and surfactants	Anionic
31	ALTRAPLEX-540	Altraplex-540 is an organic sequestrant with excellent chelating action on calcium, magnesium, iron and copper for the treatment of hard water and heavy metal ions over a wide range of pH and temperature in preparation, coloration and finishing processes.	<ol style="list-style-type: none"> <li>1. Possesses high hydrolytic stability and maintains its sequestering activity across a wide pH range.</li> <li>2. Has good deflocculating property and dispersing action on suspended solids.</li> <li>3. Improves brightness in cottons during scouring and bleaching and in washing of coloured fabrics.</li> <li>4. Eliminates tendency of salt precipitation during print-paste preparations.</li> <li>5. Acts as an efficient peroxide stabilizer in bleach liquor and prevents occurrence of pin-holes in cotton fabrics.</li> </ol>	Based on organic acid salts	Anionic
32	ALTRAPLEX-S	Altraplex-S is an organic sequestrant with excellent chelating action on Calcium, Magnesium, Iron and Copper for the treatment of hard water and heavy metal ions over a wide range of pH and temperature in preparation, dyeing and finishing processes.	<ol style="list-style-type: none"> <li>1. Possesses high hydrolytic stability and maintains its sequestering activity across a wide pH range.</li> <li>2. Has good deflocculating property and dispersing action on suspended solids.</li> <li>3. Improves brightness in cottons during scouring and bleaching and in washing of colored fabrics.</li> <li>4. Eliminates tendency of salt precipitation during print-paste preparations.</li> <li>5. Acts as an efficient peroxide stabilizer in bleach liquor and prevents occurrence of pin-holes in cotton fabrics.</li> </ol>	Based on organic acid salts	Anionic
33	ALTRAPLEX-HTS	Altraplex-HTS is an efficient sequestering agent for calcium, magnesium and heavy metal which retains its effective performance at high temperatures and also in the presence of high concentrations of electrolyte and alkali	<ol style="list-style-type: none"> <li>1. Eliminates calcium and magnesium powdery precipitates or lime-soap deposits on the textile goods and prevents build-up of insoluble scale on machinery.</li> <li>2. Water absorbency, softness and winding properties of yarn are improved.</li> <li>3. Dyeing's are brighter, whites are whiter</li> <li>4. It aids reproducibility by ensuring uniform preparation and by preventing shade change with dyes sensitive to metal impurities</li> <li>5. May be used at all stages of textile processing, in scouring, bleaching, dyeing, printing or finishing.</li> <li>6. Threshold effect: It exhibits a "threshold effect" to maintain clarity in super saturated solutions of CaCO<sub>3</sub>, CaSO<sub>4</sub>, BaSO<sub>4</sub>, Fe(OH)<sub>3</sub> etc., with very small concentrations of sequestering agent</li> </ol>	Polycarboxylic acid	Anionic
34	ALTRAPLEX-CA	Altraplex-CA is an organo phosphonate with multifunctional properties like sequestration, deflocculation, threshold inhibition and hydrolytic stability, as a single active ingredient. Because of the combination of these properties it has a wide range of applications. One of the most important applications is in scale prevention and corrosion inhibition in water treatment.	<ol style="list-style-type: none"> <li>1. Chelates Calcium, magnesium other metallic impurities.</li> <li>2. It softens water.</li> <li>3. Removes hardness formers, avoids salt deposits prevents catalytic damage by heavy metal ions, prevents precipitations of hydroxides or earth alkali silicates in the bleach liquor.</li> <li>4. Imparts distinct brightening effect during boiling off or bleaching.</li> <li>5. Prevent deposits of hydroxides and silicates, in the fiber and machines thereby reducing scaling.</li> </ol>	Organophosphonate	Anionic
35	PEROSTAB-GL	Perostab-GL is an alkaline stabilizer for peroxide bleaching	<ol style="list-style-type: none"> <li>1. Bleaching processes without loss of stability as well as maximum whiteness through controlled decomposition of the bleaching agent.</li> <li>2. Suited for discontinuous procedures</li> <li>3. Suited for continuous procedures</li> <li>4. Good binding properties towards hardeners and heavy metals</li> <li>5. High dispersion capacity</li> <li>6. Stabilising peroxide</li> <li>7. Reduces catalytic damages</li> </ol>	Organic chelate forming compounds	Anionic
36	PEROSTAB-NW	Perostab-NW is an organic stabilizer for alkaline hydrogen peroxide bleaching	<ol style="list-style-type: none"> <li>1. Suitable for cellulosic fibers and their blends with synthetic fiber.</li> <li>2. Suitable for all processes.</li> <li>3. Primarily for cold pad-batch peroxide extraction bleaching.</li> <li>4. Extremely suitable for silicate free pad-steam bleaching.</li> <li>5. Extremely high iron bonding power.</li> <li>6. EDTA free.</li> </ol>	Combination of organic hydroxy compounds and carboxylic acids	Anionic

37	PEROSTAB-ICE	Perostab-ICE is used in peroxide cold, pad-steam bleaching without silicate as well as the alkaline discontinuous long-liquor peroxide bleaching process. Bleaching cellulosic fibers and their blends with peroxide by the cold pad-batch, pad-steam routine without silicate as well as the discontinuous long liquor bleaching process.	<ol style="list-style-type: none"> <li>1. Perostab-ICE stabilizes peroxides, e.g. hydrogen peroxide, sodium peroxide etc. in alkaline bleaching baths.</li> <li>2. It thus prevents the peroxide from decomposing too rapidly and provides optimum fiber protection.</li> <li>3. Its dispersing action prevents impurities in the cotton from redepositing in the material during bleaching and promotes their removal in the washing-off process.</li> </ol>	Phosphonic acid derivative	Anionic
38	PEROSTAB-SF	Perostab-SF is a stabilizer for use in peroxide cold, pad-steam bleaching without silicate as well as the alkaline discontinuous long-liquor peroxide bleaching process. It is used in bleaching of cellulosic fibers and their blends with peroxide by the cold pad-batch, pad-steam routine without silicate as well as the discontinuous long liquor bleaching process.	<ol style="list-style-type: none"> <li>1. Stabilizing/regulating function.</li> <li>2. Dispersing, crystallization-inhibiting, threshold effect.</li> <li>3. Does not contain silicate.</li> <li>4. Best use is made of the bleaching agent which results in high degree of whiteness combined with a high DP value of the cellulosic fiber (high protection of the fiber).</li> <li>5. Forms complexes with heavy metal ions (e.g. Fe+3) thus preventing catalytic damage to the cotton fiber.</li> <li>6. No danger of Ca-silicate deposits and incrustations.</li> </ol>	Sodium salt of a preparation of oligomeric ester condensates containing polycarboxylic acid	Anionic
39	ALTRAPLEX-PH	Prior treatment with Altraplex-PH prevents damages occurring during sodium hypochlorite bleach (problem: AOX values) prior to the peroxide bleach through an environment friendly and non toxic protonic treatment.	<ol style="list-style-type: none"> <li>1. It prohibits catalytic damage to cellulosic fibers or destabilization of peroxide bleaching liquors by conizing metallic particles.</li> <li>2. Replaces organic acids (formic acid or acetic acid) for neutralization of core alkali post scouring /peroxide bleaching.</li> <li>3. Not completely volatile during drying, thus preventing core - alkali migration.</li> <li>4. Demineralizes cotton, remove difficult to eliminate pigments.</li> <li>5. Exhibit pH specific function. In alkaline region Altraplex-PH liquor function as a buffer or sequestering or peroxide stabilizing agent.</li> </ol>	Based on organic acids	Anionic
40	ALTRAPLEX-AC	Cracking agent is a multi-functional agent to optimize the pretreatment washing processes after alkaline pretreatment processes.	<ol style="list-style-type: none"> <li>1. Removes residual alkali and core neutralization of the textile goods to enhance the quality and reproducibility of subsequent processing steps.</li> <li>2. Can be added at the end of the washing range without danger of corrosion in machines such as stenters.</li> </ol>	Special organic acids	Anionic
41	Altraplex MSD	Altraalex MSD is Dispersing & sequestering agent:	Stabilising and anticatalytic effect in the alkaline peroxide bleach. Improves the degree of whiteness and absorbency.	Mixture of dispersing and complexing substances	Anionic
42	LUBASSIST-C	Lubassist-C is a high molecular weight, weakly anionic/non-ionic emulsion polymer. This product provides exceptional fiber/fiber and fiber/metal lubricity. It is recommended for use in the fabric wet processing for reduction of crack, crease, wrinkling, crow's feet, chafe marking & fold marks	<ol style="list-style-type: none"> <li>1. Lowers textile to textile friction. No formation of permanent crease during wet finishing.</li> <li>2. Rope opens &amp; displace more easily, so improve levelness.</li> <li>3. Reduces textile to metal friction. Textiles run better &amp; more dependably in machines, no chafe marks or streaks.</li> <li>4. Lowers the friction coefficient of the textile material. Higher utilization of jets, winches, paddle &amp; drum type machines. Improved quality of results in short liquor processing.</li> <li>5. Optimizes dependability of results. No impairment of liquor stability, hence no dye agglomeration &amp; no quality problems with stains &amp; specks. No unlevelness, more even appearance of goods.</li> <li>6. Has a non-permanent softening effect. Improved running properties of textile material. No stiffness of viscose in wet state.</li> <li>7. Can be used for all type of fabric substrate.</li> <li>8. Is highly effective at all temperature &amp; pH levels. Suitable for all dyeing method.</li> <li>9. Has no retarding effect. Best dye yield &amp; high reproducibility of results.</li> <li>10. Does not impair rubbing fastness. No foam problems in jet dyeing machines.</li> <li>11. Does not impair absorbency.</li> </ol>	High molecular weight polymer solution	Weakly anionic / non-ionic
43	ALTRAPLEX-ACA	Altraplex-ACA is a preparation and dye bath lubricant to prevent rope marks, creasing and abrasion in cellulosic fabrics and minimize tendency of color streakiness in winch/jet machines. It is also an efficient one-bath scour-dye anti-crease auxiliary for jet processing of polyester.	<ol style="list-style-type: none"> <li>1. Promotes opening of the fabric rope and displacement of folds or creases in cellulosic and polyester.</li> <li>2. Acts as a lubricant when the fabric rubs against itself or machine parts and eliminates yarn/fiber abrasion.</li> <li>3. It has no restraining effect on dyes.</li> <li>4. Is highly stable to caustic alkali and to high electrolyte concentration making it ideal for application of all dyes on cellulosic fibers &amp; their blends.</li> <li>5. It has excellent emulsifying properties for residual oils, waxes and enable a single-bath scour-dye process for 100% polyester.</li> <li>6. It is low-foaming and facilitates smooth running in jet machines with higher machine loading at shorter liquor ratios.</li> </ol>	Blend of special phosphate esters	Anionic
44	PROFINISH-LU	Profinish-LU is a non-ionic crease prevention agent/dyebath lubricant for woven and knitted goods made of all types of natural and synthetic fibers and their blends for use in pretreatment, dyebath and after treatment.	<ol style="list-style-type: none"> <li>1. Non-foaming.</li> <li>2. High resistance to alkali and electrolytes.</li> <li>3. Suitable for application on jet dyeing units (cationic and anionic liquors).</li> <li>4. Can be diluted with cold water, forms stable stock solutions.</li> <li>5. For cellulosic fibers, wool, acrylics, polyamide, polyester and blends of these fibers.</li> <li>6. For use in pretreatment, dyeing and after treatment.</li> <li>7. Low foaming. Stable temperatures up to 135°C.</li> </ol>	Fatty acid ester preparation	Non-ionic

45	PROFINISH-L	Profinish-L is an anionic crease preventing agent / dye bath lubricant for woven and knitted fabrics. It is non-foaming and is suitable for jet dyeing units	<ul style="list-style-type: none"> <li>☑ It is used for cellulosic fibers, wool, polyamide, polyester and blends of these fibers.</li> <li>1. It is used in pretreatment, dyeing and after treatment.</li> <li>2. Suitable for jet application.</li> <li>3. Stable at temperatures up to 135°C.</li> <li>4. Good stability to alkali and electrolytes.</li> <li>5. Low foaming.</li> </ul>	Fatty sulphonate preparation	Anionic
46	LUBASSIST-109-ECO	Lubassist-109-ECO is an anionic crease preventing agent / dye bath lubricant for woven and knitted fabrics. It is non-foaming and is suitable for jet dyeing units.	<ul style="list-style-type: none"> <li>1. It is used for cellulosic fibers, wool, polyamide, polyester and blends of these fibers.</li> <li>2. It is used in pretreatment, dyeing and after treatment.</li> <li>3. Suitable for jet application.</li> <li>4. Stable at temperatures up to 135°C.</li> <li>5. Good stability to alkali and electrolytes.</li> <li>6. Low foaming.</li> </ul>	Fatty sulphonate preparation	Anionic
47	ALTRAPLEX-NV	Altraplex-NV is a pH buffer for neutralizing alkaline finishing processes. Core alkali neutralizer	<ul style="list-style-type: none"> <li>1. Is used for neutralizing of finishing processes.</li> <li>2. Guarantees for a neutral to weakly acid pH value on the fabric.</li> <li>3. The application of Altraplex-NV for neutralization compensates for a pH change on the fabric through the industrial water.</li> <li>4. The pH value of fabric treated with Altraplex-NV does not change if stored or dwelled for a long time.</li> <li>5. Prevents fiber damages in comparison to mineral acids.</li> <li>6. Is not volatile and therefore causes no corrosion to the stenter or other machines.</li> <li>7. It is odorless compare to formic acid &amp; acetic acid.</li> </ul>	Mixture of organic/inorganic buffers	Non-ionic
48	ALQUAT-CLA	Alquat-CLA is a unique catalyst & desorbing agent designed to greatly accelerate action of chlorine bleach on indigo (anthraquinone & indigo) Sulfur, azo and direct color dyes on native fibers. Bleach bath accelerator	<ul style="list-style-type: none"> <li>1. Ensures over 50% reduction in chlorine bleach concentration.</li> <li>2. Substantial reduction in bleach cycle time allowing for improved productivity.</li> <li>3. Bleaching process at lower temperatures allowing savings in fuel costs &amp; energy costs.</li> <li>4. Vastly reduced effluent quantities.</li> <li>5. Is ECO friendly and environmentally safe.</li> <li>6. It performs synergistically when used in chlorine bleach processes; enabling substantial reductions in chlorine bleach concentrations bleach cycle time and/or process temperatures to achieve a given shade.</li> </ul>	Salified ammonium derivative	Cationic
49	NEUTROX-ALN	Neutrox-ALN is an auxiliary used for neutralizing residual peroxide & hypochlorite from processed garments & fabric after bleaching cycle & subsequent dyeing with reactive dyes.	<ul style="list-style-type: none"> <li>1. Optimizing of bleaching &amp; dyeing cycles.</li> <li>2. Saving in energy &amp; water consumption.</li> <li>3. Reduced effluent quantity.</li> <li>4. Reproducible &amp; consistent results.</li> <li>5. Reducing agent against the rests of sodium hypochlorite used for jeans bleaching.</li> <li>6. Bleaching process when washing and neutralizing is carried out, it eliminates chlorine rests, it also eliminates eventual resistance loss &amp; yellow produced by chlorine remains.</li> <li>7. Product exempt of odor, which could be usual in other anti-chlorine products.</li> </ul>	Inorganic compound	Nonionic
50	QUENCH-PN	Quench-PN is used for rapid removal of potassium permanganate & hypochlorite residues from processed garments. Potassium permanganate residue removal	<ul style="list-style-type: none"> <li>1. Eliminates coloration produced by manganese dioxide. Potassium permanganate residue removal or PP neutralizer.</li> <li>2. Bleaching process when washing and neutralizing is carried out, it eliminates chlorine rests, it also eliminates eventual resistance loss &amp; yellow produced by chlorine remains.</li> <li>3. Product exempt of odor, which could be usual in other anti-chlorine products.</li> <li>4. Applicable after Ultrafresh MG and other based on permanganate.</li> <li>5. Complete removal of yellow tint from denim after PP treatment &amp; leaving denim look bluer in compare to traditional neutralizer, metabisulfite.</li> <li>6</li> </ul>	Blend of inorganic salt	Non-ionic
51	QUENCH-CPN	Quench-CPN is used for rapid removal of potassium permanganate & hypochlorite residues from processed garments.	<ul style="list-style-type: none"> <li>1. Reducing agent against the rests of sodium hypochlorite used for jeans bleaching.</li> <li>2. Bleaching process when washing and neutralizing is carried out, it eliminates chlorine rests, it also eliminates eventual resistance loss &amp; yellow produced by chlorine remains.</li> <li>3. Product exempt of odor, which could be usual in other anti-chlorine products.</li> <li>4. Applicable after Ultrafresh MG and other bleaching based on permanganate.</li> <li>5. Complete removal of yellow tint from denim after PP treatment &amp; leaving denim look bluer in compare to traditional neutralizer, metabisulfite.</li> <li>6. Eliminates coloration produced by manganese dioxide.</li> </ul>	Blend of inorganic salt	Non-ionic

52	QUENCH-EPN	Quench-EPN is a Bio-based, sulphur-free neutralizer used to neutralize potassium permanganate. PP substitutes and chlorine bleached garments. Quench EPN works at room temperature at pH 4.0 – 6.0.	<ol style="list-style-type: none"> <li>1. It is used for removing manganese dioxide from bleached garments. In chlorine bleaching it is applied for stopping the bleaching process. Thereby, it replaces ecologically harmful or corrosive substances like hydroxylamine sulfate (HAS) or sodium bisulfite / metabisulfite.</li> <li>2. It is also suitable for the neutralization of active chlorine.</li> <li>3. Provides better contrast and brighter shades to garments.</li> <li>4. It is a substitution of oxalic acid, sodium pyrosulfite or hydroxylamine sulphate.</li> <li>5. It is free of formaldehyde, APEO, heavy metal ions and it works at room temperatures.</li> </ol>	Mixture of organic and inorganic substances	
53	QUENCH-BA/ Neutrox BA	Optical Brightener Quencher. "a highly effective, fast working quenching agent for the fluorescent whitening agents used in the paper industry.	<ol style="list-style-type: none"> <li>1. Unlike conventional UV absorbers quench BA performs the OBA masking function by forming a complex with OBA thereby preventing reemission in visible spectrum.</li> <li>2. Rapid quenching of fluorescence in machine, stock preparation equipment &amp; pipe systems considerably shortens the change-over times.</li> <li>3. Resulting increase in production results in cost benefits which are far greater than the cost of product.</li> <li>4. Helps correct fabrics/garments with localized OBA patches or stains.</li> <li>5. Permits complete removal of OBA from treated textiles.</li> </ol>	Benzene carboxylic acid amide derivative.	Cationic
54	DYTEC-RLG	Dytec-RLG is an auxiliary to improve the stability, leveling of reactive & direct dye solutions when dyeing cellulosic fibers	<ol style="list-style-type: none"> <li>1. It controls the liquor exhaustion rate and lowers the rate of fixation during reactive dyeing. Ensures uniform fixation of the dyestuff due to pH regulating effect during the alkali addition.</li> <li>2. These properties promote level dyeings particularly of cellulose based synthetic fibres such as viscose, lyocell, modal and micro modal.</li> <li>3. The product has a sequestering effect regarding hardness elements which may be contained in the process water, in the goods and in the electrolyte additives.</li> <li>4. It has a positive influence on the bicarbonate problem the dyer is faced with in reactive dyeing.</li> <li>5. The reproducibility of the dyeings is improved.</li> <li>6. Excellent dispersing power even in case of extreme liquor turbulences.</li> </ol>	Polyaminocarboxylic acid & modified condensation product	Anionic
55	ALLENOL-ADKI	Levelling agent for direct, vat and sulphur dyestuffs	Allenol-ADKI helps to achieve level dyeing on cotton by equalizing the rate of dyeing and minimizing the affinity differences. It improves dyestuff penetration also.	Amphoteric alkoxylate	Nonionic
56	DYLEV-VL	Dylev-VL is a versatile levelling agent for direct/reactive and vat colors. It is a highly effective levelling agent with retarding properties for use when Leuco dyeing with vat dyes and in the clearing of disperse dyes.	<ol style="list-style-type: none"> <li>1. Is an effective levelling and retarding agent when dyeing with vat dyes.</li> <li>2. Promotes level dyeing and penetration of direct dyes on cellulosic materials.</li> <li>3. It is useful assistant for partial stripping of vat dyeing's down to a light ground also.</li> <li>4. Gives an excellent, but none permanent, antistatic effect on synthetic fibers and piece goods especially on carpets.</li> <li>5. Acts as an anti-precipitant where anionic and cationic dyes are present in the same dye bath (e.g. for wool acrylic, differential dyeing nylon etc.).</li> <li>6. Finds use as a dispersing levelling agent when dyeing with acid dyes on wool and wool-nylon blends.</li> </ol>	Fatty alcohol condensate	Non-ionic
57	DYTEC-AO	Dytec-AO is an auxiliary to improve the stability, leveling of reactive & direct dye solutions when dyeing cellulosic fibers.	<ol style="list-style-type: none"> <li>1. Improves the stability of reactive &amp; direct dyes in solution when dyeing cellulosic and PES/CEL blends</li> <li>2. Improves dye diffusion and thus levelness.</li> <li>3. Dissolves and disperses impurities in the fiber.</li> <li>4. Stable to substances causing hard water.</li> <li>5. Low-foaming.</li> </ol>	Aqueous preparation of aryl sulphonic acid & amino carboxylic acid	Anionic
58	ALTRAPLEX-LA	Altraplex-LA is a liquid alkali for fiber reactive dyeing, i.e. soda ash replacement during reactive dyeing. It can be easily diluted with water in all proportions. It offers ease of handling and economy over solid products such as trisodium phosphate or soda ash.	<ol style="list-style-type: none"> <li>1. Convenience- liquid vs. solid.</li> <li>2. Reduced dyestuff hydrolysis.</li> <li>3. Cleaner, brighter shades.</li> <li>4. Dissolves in cold water. No CV logged drains. The problem of dissolving and cooling the solution of solid products is also eliminated.</li> <li>5. Easier to rinse. Improved color yield.</li> <li>6. Bag disposal is eliminated as is the problem of torn bags, loss of material and dusting.</li> <li>7. Less load on effluent &amp; less Total dissolved solids</li> </ol>	Buffered alkalis	Nonionic

59	ALTRAPLEX-DCA	Altraplex-DCA is an efficient multifunctional agent with the functions of a dispersant, protective colloid, soaping agent, complexing agent and a chelating agent for all stages in dyeing of textile made from cellulosic and blends	<ol style="list-style-type: none"> <li>1. It exhibits excellent dispersing effect on raw cotton impurities (Waxes &amp; Pectinates) and on the precipitates caused due to hard water.</li> <li>2. It also has moderate chelating effect on metal ions. Consequently Altraplex-DCA eliminates the adverse effect of Calcium and Mg<sup>++</sup> ions on the solubility of anionic dyes &amp; their affinity to cellulosic.</li> <li>3. It helps to remove the loose dyes and possible heavy metals from the fabrics, thus giving better wet fastnesses and higher quality fabrics.</li> <li>4. It prevents the hydrolyzed reactive dyes from forming calcium salts, which are difficult to wash out, in hard water.</li> <li>5. It does not affect the shade or the fastness of textiles dyed with reactive or direct dyes that contain metals, because its complexing capacity is insufficient for it to be able to complex the metals contained in metal-complex dyes.</li> </ol>	Acrylic copolymer	Anionic
60	ALTRAPLEX-1097	Altraplex-1097 is a Washing off or soaping agent for reactive dyed fabrics. It is a dispersant and protective colloid with binding properties for calcium, magnesium and heavy metal ions, for use in dyeing cellulosic fibers and their blends	<ol style="list-style-type: none"> <li>1. Action based on dispersing and calcium/magnesium-inactivating properties: <ul style="list-style-type: none"> <li>- Disperses sparingly soluble calcium and magnesium salts.</li> <li>- Inactivates calcium and magnesium ions present in hard water and on cotton.</li> </ul> </li> <li>2. Dispersing properties: <ul style="list-style-type: none"> <li>- Disperses the sparingly soluble salts that are formed from calcium and magnesium (e.g. calcium carbonate) and precipitated dyes and hardness ions. Improves dye bath stability Promotes the best possible conditions for level dyeing's.</li> </ul> </li> <li>3. Binds heavy metal ions in water: <ul style="list-style-type: none"> <li>- Binding with dyes sensitive to iron and/or copper.</li> </ul> </li> <li>5. Improves dye solubility: <ul style="list-style-type: none"> <li>- Prevents dye agglomeration induced by hard water or salt additions.</li> </ul> </li> <li>6. No de-metallization of dyes:- No shade change or impaired light fastness.</li> </ol>	Mixture of addition complexing agent & polymers	Anionic
61	DYMAX-TWE	Dymax-TWE system represents a valid alternative to the traditional soaping process, generally performed with several washing at boiling temperature. Dymax-TWE allows a substantial reduction in terms of treatment baths, all performed at the maximum temperature of 50 .	<ol style="list-style-type: none"> <li>1. Dymax-TWE has a particular cationic nature which enables it to react with the hydrolyzed dyes and, subsequently, with the fiber.</li> <li>2. This polymer has a special chemical nature, which allows diverse actions as follows: <ul style="list-style-type: none"> <li>- The reaction between the polymer with both, hydrolyzed and partially hydrolyzed dyes, generates a complex with affinity to the fiber.</li> <li>- The complex forms a stable bond with the fiber. Such bond has a very high stability.</li> <li>- The polymer reacts with the dyes previously fixed on the fiber.</li> </ul> </li> <li>3. Very good wet fastness also with repeated washes.</li> <li>4. No influence on the light fastness of the dyestuffs.</li> <li>5. If correctly applied the product exhaust nearly completely on the fiber and no residual product remains in the bath</li> </ol>	Quaternary ammonium compound	Cationic
62	ALTRAPLEX-LTS	Altraplex-LTS is a multifunctional soaping agent which works at temperature from 60 - 98°C. It gives Optimal soaping result, independent of hardness degree and salt content.	<ol style="list-style-type: none"> <li>1. Soaping at 60 – 70°C.</li> <li>2. Optimal soaping result, independent of hardness degree and salt content.</li> <li>3. Saving of water and energy effectiveness by shorter processing time.</li> <li>4. Antiback staining.</li> <li>5. Optimization potential depends on applied reactive system.</li> <li>6. Ecofriendly.</li> </ol>	Vinyl Co-Polymer	Anionic
63	ALTRAPLEX-XCW	Altraplex-XCW is a universal after soaping agent for the removal of reactive dye hydrolysate or unfixed direct dye from dyeing's on cellulosic material	<ol style="list-style-type: none"> <li>1. Reduces the number of rinsing and soaping steps required.</li> <li>2. Removes the hydrolysate from the material.</li> <li>3. Retains hydrolysate in the liquor and prevents their re-deposition on the material.</li> <li>4. The action is virtually independent of pH, independent of salt concentration.</li> <li>5. Enables the possibility of reducing after soaping temperatures for temperature sensitive substrate blends.</li> <li>6. Performance not effected by water hardness</li> </ol>	Vinyl co-polymer	Weakly anionic

64	ALTRAPLEX-R	Altraplex-R improves vat and sulfur dye oxidation. It oxidizes dyestuffs in an acid bath at high temperatures for more effective dye fixation, without the necessity of elaborate controls. It can replace any present vat and sulfur dye oxidation system on continuous ranges.	<ol style="list-style-type: none"> <li>1. Improved Dye Value – it results in complete and efficient oxidation and may provide an increase of shade depth.</li> <li>2. Quality - dyed fabric has an improved absorbency and hand when compared with fabrics that were dyed using dichromate for oxidation.</li> <li>3. Versatility - can replace any present vat or sulfur dye oxidant on continuous ranges.</li> <li>4. Stability - At elevated temperatures, the concentration of Altraplex-R remains constant, even in the presence of copper sulfate.</li> <li>5. Environmental – is an effective replacement for heavy metal dye oxidants. It was developed to fill the need for an oxidizing chemical that would not materially affect plant effluents.</li> <li>6. Safety – It is reasonably safe to use when handled with care. Its use can result in safer operating conditions when it replaces dye oxidants that are considered dangerous to handle.</li> </ol>	Special oxidizing agent & surfactants	Nonionic
65	ALTRAPLEX-RS	Altraplex RS is a stable inorganic mild oxidizing agent for disperse dye high temperature steaming.	<ol style="list-style-type: none"> <li>1. It is recommended for use in all print pastes which may be alkaline, containing dyes sensitive to reduction action.</li> <li>2. It can be used for protection of printed reactive colors against reduction fumes during steaming, thus improving the colour depth / brightness</li> </ol>	Special oxidizing agent & surfactants	Nonionic
66	ALQUAT-RD	Alquat-RD is a non-formaldehyde based dye fixing agent for cellulosic fabrics. It improves the wet fastness and wash fastness properties of direct and reactive dyeing on cellulosic fibers. To improve the wet fastness and wash fastness properties of direct and discharge prints with direct and reactive dyestuffs. It also improves fastness to perspiration fastness.	<ol style="list-style-type: none"> <li>1. Little change of shade.</li> <li>2. Little effect on light fastness.</li> <li>3. No significant effect on handle.</li> <li>4. Good compatibility with softening and finishing liquors.</li> <li>5. Formaldehyde free.</li> <li>6. Very good resistance to salts causing hardness of water.</li> </ol>	Polyquaternary ammonium compound	Cationic
67	DYEFIX-HCF	Dyefix-HCF is a formaldehyde free dye-fixing agent for improving wet fastness of Reactive dyes & Direct dyes on Cellulosic fibers.	<ol style="list-style-type: none"> <li>1. Imparts excellent wash fastness to direct &amp; fiber dyed fabrics to water, perspiration wet ironing, sea-water &amp; laundering.</li> <li>2. It is a zero formaldehyde product &amp; hence treated fabric are free from formaldehyde odor. Further the fabrics satisfies international regulations concerning formaldehyde emission.</li> <li>3. It is highly resistant to presence of salts such as common salt &amp; Glauber salt.</li> <li>4. It is effective at room temperature. For optimum results the dyed fabric should be treated at 40 - 50°C for 20 mins.</li> <li>5. Conventional fixing agent based on formaldehyde has detrimental effect on texture shade &amp; fastness to light whereas Dyefix-HCF being formaldehyde free has no disadvantages.</li> <li>6. It has no effect on the dyed shade, nor does it impair its fastness to light &amp; chlorine.</li> <li>7. It minimizes migration of direct dyes during drying &amp; heat set process. Does not promote yellowing.</li> </ol>	Poly cation	Cationic
68	DYEFIX-CD/CONC	Dyefix-CD-Conc is an eco-friendly , highly concentrated 80% cationic dye fixing agent for reactive, vat, sulphur & direct dyes which does not contain formaldehyde in its formulation. It does not affect either light fastness or the shade of the treated material. It can be applied by exhaust as well as pad application	<ol style="list-style-type: none"> <li>1. Formaldehyde free: Suitable for Oeko-Tex and baby wear.</li> <li>2. It does not affect shade or light fastness therefore rematching not required.</li> <li>3. It is versatile, thus suitable for pad &amp; exhaust applications.</li> <li>4. Suitable for turquoise blue fabric, no tonal variation</li> </ol>	Polycation	Cationic
69	DYEFIX-CPW	Dyefix-CPW is an eco-friendly cationic dye fixing agent for reactive, vat, sulphur & direct dyes which does not contain formaldehyde in its formulation. Dyefix-CPW does not affect either light fastness or the shade of the treated material. Dyefix-CPW can be applied by exhaust as well as pad application.	<ol style="list-style-type: none"> <li>1. Formaldehyde free</li> <li>2. Suitable for Oekotex and baby wear</li> <li>3. Especially suitable even tricky shades like turquoise blue</li> <li>4. Does not affect shade or light fastness</li> <li>5. Rematching not required</li> <li>6. Versatile Suitable for exhaust and pad application</li> </ol>	Polycation	Cationic
70	DYEFIX-FRD	is a next-generation fixing agent that delivers the strongest possible wet-fastness for all reactive dyes on cotton	<ol style="list-style-type: none"> <li>1. Gives acceptable effects to improvement of not only color fastness to dry rubbing but also color fastness to wet rubbing to which the usual agents have been considered to be difficult to give effects.</li> <li>2. It also improves wet fastness of cellulosic fabrics.</li> <li>3. Imparts excellent wash fastness to direct &amp; fiber dyed fabrics to water, perspiration wet ironing, sea -water &amp; laundering.</li> <li>4. It is a zero formaldehyde product &amp; hence treated fabric is free from formaldehyde odor. Further the fabrics satisfies international regulations concerning formaldehyde emission</li> <li>5. It is highly resistant to presence of salts such as common salt &amp; Glauber salt.</li> <li>6. It is effective at room temperature. For optimum results the dyed fabric should be treated at 40 -50°C for 20 mins.</li> </ol>	Polydadmac	Cationic

71	Dyefix-ES	Dyefix ES is a non-formaldehyde based dye fixing agent for cellulosic fabrics. It improves the wet fastness and wash fastness properties of direct and reactive dyeing on cellulosic fibers. To improve the wet fastness and wash fastness properties of direct and discharge prints with direct and reactive dyestuffs. It also improves fastness to perspiration fastness.	<ol style="list-style-type: none"> <li>1. Little change of shade.</li> <li>2. Little effect on light fastness.</li> <li>3. No significant effect on handle.</li> <li>4. Good compatibility with softening and finishing liquors.</li> <li>5. Formaldehyde free.</li> <li>6. Very good resistance to salts causing hardness of water.</li> <li>7. No change in handle, comparatively soft handle compare to Dyefixing agent available in market</li> </ol>	Polyquaternary ammonium compound	Cationic
72	DYEFIX-CF	Dyefix-CF improves both, the wet fastness to washing and chlorine for materials that are dyed with reactive and direct dyes. Properties like perspiration, washing, etc. are also improved. It is applicable on exhaustion as well as by padding method with finishing resin. It is non-foaming and is formaldehyde free.	<ol style="list-style-type: none"> <li>1. Gives excellent chlorine resistance. Gives excellent pool water fastness.</li> <li>2. All round product for reactive and direct dyeing's, excellent improvement of contact water fastness.</li> <li>3. Contact fastness of basic, sulphur, vat, direct &amp; reactive dyeing's are distinctly improved &amp; so suitable for polyacrylics, cellulotics &amp; regenerated cellulosic fabrics.</li> <li>4. None or only minimum influence on shade change and light fastness. No influence on handle and absorbency.</li> </ol>	Polyetheramine in aqueous solution	Cationic
73	DYEBOND-425	Dyebond-425 is a special high molecular weight cationic compound designed to demand high wet rubbing fastness for trouble-shooting on deep navy, black, red shades on cellulose fiber and its blends, accompanied with high value adding benefits for dyeing mills & apparel brands.	<ol style="list-style-type: none"> <li>1. It improves distinctly both the dry and wet rubbing fastness on 100% Cotton, Rayon, PET/cotton blends. It is applied for the aftertreatment of dyeing and prints.</li> <li>2. No influence to washing, and perspiration fastness and the handle of fabric.</li> <li>3. Does not lead to any shade deviations.</li> <li>4. It is extremely effective on indigo dyed denims.</li> <li>5. Applicable by both PAD &amp; Exhaust.</li> <li>6. Good hydro absorbency.</li> <li>7. Low foaming &amp; excellent solubility.</li> <li>8. Free of formaldehyde, dimethylformamide &amp; butanone oxime</li> </ol>	Waterborne polyurethane	Cationic
74	DYEBOND-MAX New	Dyebond-MAX is a rub fastness improver after treatment agent, highly effective for cellulosic and synthetic fibres. It reduces the colour abrasion from dyed cellulose fibres, synthetics and their blends. The fastness's to light, washing and contact of the treated fabrics are not impaired with the shade intensification is manageable.	<ol style="list-style-type: none"> <li>1. The wet rubbing fastness can be improved significantly. It is Suitable for 100% Cotton, Rayon, PET/cotton blends.</li> <li>2. It improves the wet rubbing fastness of dyeing's considerably which increases the fabric quality.</li> <li>3. It is extremely effective on indigo dyed denims.</li> <li>4. It has no influence to washing, perspiration fastness, and handle of fabric.</li> <li>5. Applicable by both PAD &amp; Exhaust.</li> <li>6. Good handle &amp; hydro absorbency.</li> <li>7. It improves the pilling behavior of the fabric considerably.</li> <li>8. Low foaming &amp; excellent solubility.</li> <li>9. Free of formaldehyde, dimethylformamide &amp; butanone oxime.</li> </ol>	Waterborne polyurethane	Cationic
75	DYEBOND-IF	Dyebond-IF is a cross linking agent to improve washing fastness of Indigo and Sulphur dyed denim fabric/garment. It improves wet & dry crock resistance on the fabric. It improves wash fastness without significantly affecting the dye shade.	<ol style="list-style-type: none"> <li>1. Improves wet and dry crock resistance on the fabric.</li> <li>2. Improves wash fastness without significantly affecting the dye shade.</li> <li>3. Effective over a wide pH range of 2.0 – 10.0.</li> <li>4. High substantivity to cellulosic fibers.</li> <li>5. Improves appearance of denim garments to washing.</li> <li>6. Assists in yarn size retention.</li> <li>7. Good treated with it keep their original indigo blue even after stone-wash.</li> <li>8. Contains no formaldehyde.</li> </ol>	Polyamide resin	Cationic
76	DYEBOND-FID	Dyebond-FID improves wet & dry crock resistance on the fabric. It improves wash fastness without significantly affecting the dye shade.	<ol style="list-style-type: none"> <li>1. Improves wet and dry crock resistance on the fabric.</li> <li>2. Improves wash fastness without significantly affecting the dye shade.</li> <li>3. Effective over a wide pH range of 2.0 – 10.0.</li> <li>4. High substantivity to cellulosic fibers.</li> <li>5. Improves appearance of denim garments to washing.</li> <li>6. Assists in yarn size retention.</li> <li>7. Good treated with it keep their original indigo blue even after stone-wash.</li> <li>8. Contains no formaldehyde.</li> </ol>	Polyamide resin	Cationic
77	ALQUAT-5851	Alquat-5851 is a specially developed cationic, water soluble polymer intended for use in the cationising of cotton goods prior to pigment dyeing process.	<ol style="list-style-type: none"> <li>1. Cationizer for pigment dyeing by exhaust process. Garment dyeing i.e. pigment dyeing for brighter colour .</li> <li>2. Catinization in both alkaline &amp; acidic pH condition</li> <li>2. It is also used as an after finishing agent to improve wash and crock fastness of reactive and direct dyed fabrics. It increases the amount of dye uptake that can be exhausted onto cellulosic fabric with direct, pigment, fibre reactive, sulphur dyes, vat and indigo.</li> </ol>	Polycation	Weakly Cationic
78	ALQUAT-CF	Alquat-CF is a specially developed cationic, water soluble polymer intended for use in the cationising of cotton goods prior to dyeing process.	<ol style="list-style-type: none"> <li>1. Cationizer for pigment dyeing by exhaust process. Garment dyeing i.e. pigment dyeing for brighter colour .</li> <li>2. Catinization in both alkaline &amp; acidic pH condition</li> <li>2. It is also used as an after finishing agent to improve wash and crock fastness of reactive and direct dyed fabrics. It increases the amount of dye uptake that can be exhausted onto cellulosic fabric with direct, pigment, fibre reactive, sulphur dyes, vat and indigo.</li> </ol>	Polyetheramine	Cationic
79	ALQUAT-4035	Alquat-4035 is a specially developed cationic, water soluble polymer intended for use in the cationising of cotton goods prior to dyeing process.	<ol style="list-style-type: none"> <li>1. Cationizer for pigment dyeing by exhaust process. Garment dyeing i.e. pigment dyeing for brighter colour .</li> <li>2. It is also used as an after finishing agent to improve wash and crock fastness of reactive and direct dyed fabrics. It increases the amount of dye uptake that can be exhausted onto cellulosic fabric with direct, pigment, fibre reactive, sulphur dyes, vat and indigo.</li> </ol>	Polycation	Cationic

80	ALQUAT-M	Alquat-M is a specially developed cationic, water soluble polymer intended for use in the cationising of cotton goods prior to pigment dyeing, acid dyeing on cotton	1. Cationizer for pigment dyeing by exhaust process. Garment dyeing i.e. pigment dyeing for brighter colour 2. Cationiser for direct, reactive & acid dyes on cotton 3. Cationizer for acid dyes	Polyamine resin	Weakly Cationic
81	STABILITE-UPF-C	Stabilite-UPF-C is a textile finishing agent which enhances color fastness to light & perspiration for Cellulosic dyed with reactive, Sulphur & direct dyes.	1. Treated fabric exhibits excellent ultraviolet absorbing properties durable to washing resulting in improved UPF/SPF ratings on cellulosic fabrics 2. It has little self-color and therefore has virtually no influence on the shade of dyeing's.	Benzotriazol derivative	Non-ionic
82	Quench-APY/ Neutrox APY/ Allenol PYP	Antiphenolic yellowing agent. High performance composition designed for treating fabrics & garments from yellowing due to storage conditions	1. Normally white PA turn yellow even under slightly acid conditions. This is due to the cationic character of the free amino end-groups of PA which interact with the antioxidant derivate 2. Allenol-PYP is preventing such yellowing while blocking the free amino end-groups of the PA.	Sulfonic acid derivatives & speciality additives	Anionic
83	ANTIPIIL-CAS	Antipil & antislip agent produced by an insitu reaction which results in stable nano dispersions.	1. Treated fabric imparts excellent antipil, antislip and antinag properties. Improving seam resistance and resistance to thread slippage of all slippage-prone fabrics, particularly suitable for apparel fabrics like blouses and shirts. 2. It has an excellent antistatic effect on polyester fabric.	Pyrogenic silica sol	Weakly Cationic
84	ANTIPIIL-FW	Antipil & antislip agent produced by an insitu reaction which results in stable nano dispersions.	1. Improving seam resistance and resistance to thread slippage of all slippage-prone fabrics, particularly suitable for apparel fabrics like blouses and shirts. 2. Outstanding soft handle compared to conventional anti-slipping agents, hand feel is maintained on fabric. 3. Greatly improves resistance to thread slippage and seam strength. 4. Avoids seam damage on the garments during wearing.	Pyrogenic silica sol	Weakly Cationic
85	ANTISLIP-SP	Antislip-SP is an excellent antislip cum antipil agent. Applicable by exhaust & pad method.	1. Improving seam resistance and resistance to thread slippage of all slippage-prone fabrics, particularly suitable for apparel fabrics like blouses and shirts.	Pyrogenic silica sol	Weakly Cationic
87	SYLAST-GT	Sylast-GT is a cationic softener/lubricant for yarns made of CO, WO, PAC and their blends and wool tops. It is used in all kinds of dyeing machines, backwashing machine and padder, Denim-rebeaming process.	1. Very soft and smooth hand feeling. 2. No tendency to yellowing at normal drying-/or curing temperatures. 3. Improves sewability properties. 4. Excellent antistatic behavior. 5. High substantivity, can be used for exhaust method. 6. AEEA-free.	Dispersion of hydrocarbons & fat derivatives	Cationic
88	SYLAST-AWI	Sylast-AWI is a wet waxing agent to impart good gliding properties to yarns preferably from cellulose, cellulose/synthetics, PA, PES as well as from PAN and WO. It is a softener for knit goods to give a soft handle, to improve the sewability and to prevent damage to the loops. It acts a softener and lustering agent for corduroy and velvets	1. Results in high smoothness of the surface with low friction values. 2. Confers uniform yarn tension. 3. Absorbs uniformly and completely onto all materials—especially onto PES yarn. 4. Applicable by pad or exhaust processes. 5. Confers softness and smoothness. 6. Can be applied in resin finishing liquors. 7. Prevents damage to the loops. 8. No slipping of the layers when cutting. 9. Confers softness and luster to pile fabrics. 10. Low volatility. 11. Non-yellowing	Blend of paraffin waxes	Weakly cationic / non-ionic
89	SYLAST-DC	Sylast-DC is a water free lubricant for application by cold lick roller or dosing pumps at a final winder. The lubricant is suitable for all types of sewing threads, particularly for PES/CO & CO & embroidery yarns made from Cotton viscose rayon & Polyester. A pick-up of 4-6% is recommended	1. Gives very good smoothing properties with low level of tension peaks over thread guides & tensioning devices. 2. Provides protection against heat & very good sewability. 3. Prevents static charge. 4. Shows non-yellowing when exposed to nitrogen oxides during storage. 5. Does not contaminate waste water when correctly used	Water free formulation of silicone, waxes & additives	Nonionic
90	SYLAST-OVG	Sylast-OVG is a specialty product for yarn lubrication. It confers to the knitting yarns the gliding properties required for further processing. The product is applied in a fresh bath after bleaching or dyeing of the yarns.	1. It exhausts evenly & mostly completely on the substrate & the coefficient of friction of the yarns obtained is excellent. 2. There is no need for a rewinding process like in case of solid paraffin treatment, if so called direct bobbins are used. This makes it possible to deliver the bobbins directly to the hosiery or knits manufactures. 3. In case of a rewinding process, it can be carried out at high speed & there is definitely less yarn breakage. 4. It confers to synthetic yarn a certain antistatic properties. 5. It has negligible volatility at higher temperatures & will not cause any problems during drying under normal conditions. 6. It has practically no influence on the handle of the yarns. If a soft, fleecy handle is required we recommend the combination with a cationic softener such as Profinish-OE. 7. The sewability of the knits obtained is considerably improved.	Based on silicone, fatty acid condensation & wax	Weakly cationic

91	SYLAST-YLE	Sylast-YLE is a specialty product for yarn lubrication. It increases the tear strength and abrasion resistance of fabrics treated with resins	<ol style="list-style-type: none"> <li>1. It is an excellent lubricant for yarns applied by a bath exhaustion process after dyeing.</li> <li>2. It has an affinity to fibers &amp; can be used for yarns having been submitted to cationic after treatment. Even in these cases a water clear exhaustion can be achieved.</li> <li>3. Provides yarns with optimal gliding properties which is achieved by carefully selected waxes.</li> <li>4. Yarns treated with it have a low friction coefficient.</li> </ol>	Polyethylene dispersion	Weakly cationic
92	NOBAC-DBSP/CONC	Nobac-DBSP-Conc is a weakly anionic polyester copolymer dispersion. It is designed as an anti-redeposition, dispersing and suspending additive in standard garment wash.	<ol style="list-style-type: none"> <li>1. It provides superior soil release properties to polyester and polyester/cotton fabrics.</li> <li>2. It minimizes staining of pocketing and labels and keeping filling whiter.</li> <li>3. It is enzyme compatible and used as a back stain preventing agent for denims and garment processing.</li> <li>4. It is readily dispersible in water to allow for friendlier handling formulations.</li> </ol>	Polyester co-polymer	Weakly anionic
93	NOBAC-ABS	Nobac-ABS is weakly anionic polycarboxylic acid copolymer. It is designed as an anti-redeposition, dispersing and suspending additive in standard garment wash processes	<ol style="list-style-type: none"> <li>1. It minimizes staining of pocketing and labels and keeping filling whiter.</li> <li>2. It is enzyme compatible and used as a back stain preventing agent for denims and garment processing.</li> </ol>	Polycarboxylic acid copolymer	Weakly anionic
94	ALTRAPLEX-CI	Altraplex-CI is a corrosion inhibitor and passive inhibitor for water systems	<ol style="list-style-type: none"> <li>1. Generally used as passive and corrosive inhibitor of metal structures when water systems are used.</li> <li>2. Dyeing of ready-made garments with metal buttons and/or zips, protects accessories - especially the copper ones - from the chemical attack caused by the operative conditions, preventing stain formation due to metal accessories.</li> <li>3. Does not alter dyes features; in any case preventive tests are recommended.</li> </ol>	Corrosion inhibiting agent, phosphoric acid derivative	Non-ionic
95	ALTRAPLEX-AR	Altraplex-AR is used as a protection against stains caused by metal parts when dyeing garments.	<ol style="list-style-type: none"> <li>1. Addition of it into the dyeing bath the risk of soiling by the metal parts (like metal buttons, zip fastners and rivets) or shade changes can be almost eliminated.</li> <li>2. It prevents contaminations of the metal surface (many common types of alloys) when dyeing or re-dyeing garments.</li> <li>3. It neither influences the fastness nor the handle.</li> </ol>	Alkanol ester	Slightly anionic
96	QUEST-3P	Quest-3P is a highly efficient antistatic agent for universal application. It has a good stability to the usual concentrations of acids, alkalis and salts. It can be combined with anionic and non-ionic products. Its compatibility with cationic products has to be checked in preliminary trials.	<p>Excellent antistatic effect.</p> <ol style="list-style-type: none"> <li>1. Suitable for all fiber sorts; preferred application on synthetic fibers and their blends.</li> <li>2. No influence on handle.</li> <li>3. No yellowing, even at higher drying and fixing temperatures.</li> <li>4. The color shade and the fastness level of the dyeing's not influenced.</li> <li>5. Can be well combined with softeners and other finishes; in combination with cationic products we recommend carrying out preliminary tests to verify the compatibility.</li> </ol>	Phosphoric acid ester	Anionic
97	ULTRAFRESH-MG	Ultrafresh-MG is a powder bleaching composition for fading and other special effect on cellulosic fabric. It is non aqueous system designed to produce washed out look.	<ol style="list-style-type: none"> <li>1. Used for finishes on denim such as French Frost, ice wash, white wash, snow wash and acid wash.</li> <li>2. Also used to achieve a 'worn' appearance on light weight garments like fleece and T-shirts.</li> <li>3. Can be used at different dosages to obtain many finishes.</li> <li>4. Gives very good ocean wash effect on corduroy fabric.</li> <li>5. It is non-aqueous method for fading a previously dyed denim fabric.</li> <li>6. When used suitably it can achieve the following effects: <ul style="list-style-type: none"> <li>- Cracked look</li> <li>- Ice look</li> <li>- Bright white look</li> <li>- Black sky look</li> </ul> </li> </ol>	Semectite clay & alkali metal salt	Non-ionic
98	AQUASORB-OZ	Aquasorb-OZ is a fatty acid amido amine softener used to protect indigo dyestuff against ozone fading.	<ol style="list-style-type: none"> <li>1. This product has low viscosity that lends itself to easy handling in most automated feed systems. It does not carry a red label.</li> <li>2. It is a complex amido amine phosphate used to protect indigo dyed fabrics and garments against ozone &amp; NOx fading.</li> <li>3. Economical &amp; Eco-friendly.</li> </ol>	Quaternary Ammonium Compound	Cationic
99	AQUASORB-HIS	A quaternary ammonium softener used to protect indigo dyestuff against ozone fading. It does not carry a red label.	<ol style="list-style-type: none"> <li>1. AEEA free. Ecofriendly antiozone softner. It is used to protect indigo dyed fabrics and garments against ozone &amp; NOx fading.</li> </ol>	Quaternary ammonium tetra-alkyl ammonium sulphate	Cationic
100	AQUASORB-AO-PDR	Aquasorb-AO-PDR helps protect indigo dyestuff against ozone fading.	<ol style="list-style-type: none"> <li>1. Ecofriendly, sustainable antiozone in powder form.</li> </ol>	Mixture of organic and inorganic substances	Cationic
101	TRISTAR-L-112	Tristar-L-112 is a cross linker for the low formaldehyde easy care finishing of textile materials composed of cellulosic fibres and its blends with synthetic fibres.	<ol style="list-style-type: none"> <li>1. Very good stability to hydrolysis.</li> <li>2. Easy care finishing of woven and knitted fabrics composed of cellulosic fibres, viscose, alone and in blends with synthetics.</li> <li>3. The finishing effects have good fastness to washing and dry cleaning.</li> </ol>	Modified dimethylol dihydroxyethylene urea	Cationic

102	TRISTAR-RCT	Tristar-RCT is a pre-catalyzed low-formaldehyde, wash fast resin finishing for woven and knitted fabrics composed of cellulosic fiber and their blends with synthetic.	<ol style="list-style-type: none"> <li>1. Good dry &amp; wet crease angle.</li> <li>2. Low shrinking values.</li> <li>3. No chlorine retention.</li> <li>4. No garlic like odor formation.</li> <li>5. Very good stability to hydrolysis.</li> <li>6. Soft handle.</li> <li>7. The finishing effects have good fastness to washing and dry cleaning.</li> <li>8. In built catalyst.</li> </ol>	Modified dimethylol dihydroxyethylene urea	Weakly cationic
103	TRISTAR-NF	Tristar-NF is a cross-linker for the formaldehyde-free, easy-care finishing of textiles composed of cellulosic fibers and their blends with synthetic fibers.	<ol style="list-style-type: none"> <li>1. Embossed, schreiner and chintz finishes.</li> <li>2. Formaldehyde free.</li> <li>3. Very soft handle. Good wash-and-wear effects.</li> <li>5.4 Good wet &amp; dry crease recovery angle.</li> <li>5. Less loss of strength compared to resin containing formaldehyde.</li> <li>6. Very good stability to chlorine in washing treatments.</li> </ol>	Cyclic urea derivative in water	Nonionic to weakly cationic
104	TRIPLEX-936	Triplex-936 is a unique performance chemical designed for achieving 3D special fashion effects on all class of cotton rich garments i.e. shirting, bottom weights, denims etc.	<ol style="list-style-type: none"> <li>1. Sharp 3D effects, durable to washings.</li> <li>2. Improves strength after resin process.</li> <li>3. Improves rub fastness of indigo dyed &amp; sulphur dyed denims</li> </ol>	Vinyl derivative	Non-ionic
105	TRISTAR-SA	Tristar-SA reduces the drying time and increases the production capacity on 3D machines like Margarita. It increases the gray cast and shiny look on denim together with wrinkle resins.	<ol style="list-style-type: none"> <li>1. It increases the gray cast and shiny look on denim together with 2D &amp; 3D resins.</li> <li>2. Enables an easy scraping effect on denim with better contrast.</li> <li>3. It increases the wash permanency of 3D resin effects on denim.</li> <li>4. Easy to remove from the fabric by washing prior to crosslinking.</li> </ol>	Polymeric compound	Non-ionic
106	TRISTAR-F	Tristar-F is a non-formaldehyde based crosslinking agent. Gives excellent wrinkle resistance on cotton & its blends.	<ol style="list-style-type: none"> <li>1. Gives excellent wrinkle recovery.</li> <li>2. Formaldehyde free.</li> <li>3. Applicable on cotton &amp; its blend with synthetics.</li> <li>4. No effect on tensile strength, tear strength, whiteness index.</li> </ol>	Acrylic crosslinking agent	Cationic / Non-ionic
107	PROFINISH-HDNI	Profinish-HDNI is a fine dispersion of high density aliphatic polyolefin (Hard polyethylene wax). It is a handle modifier and sewability improver for textile goods of all types.	<ol style="list-style-type: none"> <li>1. Designed for application by padding &amp; exhaust methods in short liquor jets.</li> <li>2. It maintains gloss. It reduces coefficient of friction &amp; enhances rub &amp; scratch resistance.</li> <li>4. It distinctly improves the sewability of woven and knitted fabrics &amp; minimizes seam slipping.</li> <li>5. It does not affect the whiteness of brightened goods.</li> <li>6. It improves the tear strength &amp; abrasion resistance of resin finished goods and the effect on raised goods.</li> <li>7. It eases needle penetration considerably when needling non-woven and felts.</li> <li>8. It is low-foaming, therefore suitable for application in jets</li> </ol>	Aqueous dispersion of aliphatic polyolefin	Weakly cationic / non-ionic
108	PROFINISH-SHD	Profinish-SHD is cationic sewability improver for textile fabrics of cellulosic, synthetic or wool fibers and their blends	<ol style="list-style-type: none"> <li>1. Specially designed for application by the exhaust method in short liquor jets.</li> <li>2. Improves the sewability of textile fabrics, especially knitwear</li> <li>3. Imparts an excellent soft handle. Facilitates garments manufacture</li> <li>4. Is easy to handle. Is low-foaming, therefore suitable for application in jets</li> </ol>	Aqueous dispersion of aliphatic polyolefin	Weakly cationic / non-ionic
109	PROFINISH-PEN	Profinish-PEN is a fine dispersion of high density aliphatic polyolefin (Hard polyethylene wax). It is a handle modifier and sewability improver for textile goods of all types	<ol style="list-style-type: none"> <li>1. Maintains gloss.</li> <li>2. Decreases coefficient of friction.</li> <li>3. Enhanced rub &amp; scratch resistance.</li> <li>4. Distinctly improves the sewability of woven and knitted fabrics.</li> <li>5. Facilitates making up operations.</li> <li>6. Improves the abrasion resistance of resin finished goods.</li> <li>7. Noticeably improves the effect on raised goods.</li> <li>8. Eases needle penetration considerably when needling non-woven and felts.</li> </ol>	Aqueous dispersion of aliphatic polyolefin	Non-ionic
110	PROFINISH-PHD	Profinish-PHD is a fine dispersion of high density aliphatic polyolefin (Hard polyethylene wax). It is a handle modifier and sewability improver for textile goods of all types.	<ol style="list-style-type: none"> <li>1. Designed for application by padding &amp; exhaust methods in short liquor jets.</li> <li>2. It maintains gloss.</li> <li>3. It reduces coefficient of friction &amp; enhances rub &amp; scratch resistance.</li> <li>4. It distinctly improves the sewability of woven and knitted fabrics &amp; minimizes seam slipping.</li> <li>5. It produces a very soft, smooth handle &amp; facilitates making up operations.</li> <li>6. It does not affect the whiteness of brightened goods.</li> <li>7. It improves the tear strength &amp; abrasion resistance of resin finished goods and the effect on raised goods.</li> <li>8. It eases needle penetration considerably when needling non-woven and felts.</li> <li>9. It is low-foaming, therefore suitable for application in jets.</li> </ol>	Aqueous dispersion of aliphatic polyolefin	Weakly cationic

111	FINISH-CO	Finish-CO is a cross-linking polymer for stiff handles. It is used for finishing of Dot Interlining cloth, canvas, buckram, etc. to give maximum stiffness. It imparts a durable finish.	<ol style="list-style-type: none"> <li>1. It gives stiff or full handle with flexibility, surface smoothness &amp; permanent finish.</li> <li>2. It is applied by pad, dry &amp; cure process in presence of acid catalysts.</li> <li>3. It forms dry hard translucent film which is not effected by moisture.</li> <li>4. Optimum washes fasteners &amp; dry cleaning resistance.</li> <li>5. It has excellent light &amp; temperature stability</li> </ol>	Acrylic polymer	Weakly anionic / non-ionic
112	ALLENFINISH-BA	Specialty finish which confers durable firm & full handle & guffiness (body)	<ol style="list-style-type: none"> <li>1. Gives cottons, polyesters &amp; blends a full bodied, firm &amp; smooth handle which is typical of expensive fabric materials. On viscose &amp; polyester-viscose suiting's, shirting &amp; dress material. Imparts excellent body, smoothness &amp; drape without stiffness.</li> <li>2. Particularly suitable in finishing of coarse cotton poplins &amp; sheeting's to obtain the handle of superior varieties. Has no yellowing effect on white fabrics.</li> </ol>	Polyester dispersion	Non-ionic
113	AQUACOAT-HPR	A high molecular weight polyester copolymer resin, designed as a functional additive with wide applications in processing woven/non-woven textiles, paper, paints, inks and coating agents.	<ol style="list-style-type: none"> <li>1. It has superior adhesive with various kind of materials, particularly with the resin materials (polyester, vinyl chloride, polycarbonate) &amp; the metallic materials (Aluminum, copper)</li> <li>2. Superior adhesive &amp; cohesive property</li> <li>3. Minimum loss in elongation &amp; it has abrasion resistance properties.</li> <li>4. Better surface smoothness &amp; softness after sizing</li> <li>5. Less dropping and lesser warp breaks</li> <li>6. Superior weather resistance, since it does not contain double bond in its saturated polyester resin.</li> <li>7. Forms transparent film after drying.</li> </ol>	Polymeric Polyester Resin	Anionic
114	AQUACOAT-STA-M	It is a hard resin for abrasion resistance & anti-snagging properties on fabrics. It gives stiffness on cotton & polyester fabrics. It also gives body to the fabric.	<ol style="list-style-type: none"> <li>1. It has superior adhesive with various kind of materials, particularly with the resin materials (polyester, vinyl chloride, and polycarbonate) &amp; the metallic materials (Aluminum, copper).</li> <li>2. Superior adhesive &amp; cohesive property.</li> <li>3. Less dropping and lesser warp breaks.</li> </ol>	Saturated co-polymer of terephthalic acid base	Anionic
115	Aquacoat PR	It is a hard resin for abrasion resistance & anti-snagging properties on fabrics. It gives stiffness on cotton & polyester fabrics. It also gives body to the fabric.	<ol style="list-style-type: none"> <li>1. It has superior adhesive with various kind of materials, particularly with the resin materials (polyester, vinyl chloride, and polycarbonate) &amp; the metallic materials (Aluminum, copper).</li> <li>2. Superior adhesive &amp; cohesive property.</li> <li>3. Less dropping and lesser warp breaks.</li> </ol>	Saturated co-polymer of terephthalic acid base	Anionic
116	TRIPLEX-HB	Triplex-HB is a non-ionic self-cross linking polymer emulsion which is used in variety of textile & non-woven textile applications.	<ol style="list-style-type: none"> <li>1. It has excellent adhesion to a wide variety of substrates and outstanding ultra-violet light resistance.</li> <li>2. It is used in formulating laminating adhesives for bonding a wide variety of substrates.</li> <li>3. Triplex-HB is recommended for use in fabric finishing, pigment printing spray bonding, fiberfill and other non woven fabrics, back coating, adhesive for lamination and paper coating.</li> <li>4. Battery separator stiffening agent, resistance to acid</li> </ol>	Acrylic copolymer	Non-ionic /weakly anionic
117	ALAROMA-IR	Alaroma IR is vector i.e. mosquitoes, ticks, tsetse flies repellent product suitable for synthetic, cellulosic (cotton) & natural fabrics like wool, silk, jute etc & its blends.	<ol style="list-style-type: none"> <li>1. Prevents vectors such as mosquitoes, ticks, tsetse flies etc. from landing/biting.</li> <li>2. Has an outstanding wash resistance &amp; does not influence fabric color.</li> <li>3. Work on knock down action method i.e. and functions as a neurotoxin, affecting neuron membranes by prolonging sodium channel activation</li> <li>3. Passes WHO/CTD/WHO PES/IC/96.1 &amp; US Patent 5,198,287 &amp; USDA laboratory Method</li> </ol>	Permethrin complex	Weakly anionic
118	ALAROMA Microencapsulated	Microencapsulated fragrance for textile application.	<p>Fragrance &amp; Aroma- Chemicals</p> <p>Antimicrobials (Antifungals, Anti-Mite, Anti- Bacterial, Antivirals)</p> <p>Oil Soluble Vitamins</p> <p>Phase Change Polymers</p> <p>UV Blockers</p> <p>Pesticides</p> <p>Self-Healing Polymers</p>	Dispersible aminoblast capsule slurry with acrylates	Weakly Anionic
119	ALAROMA-SOFT	Fabric conditioner cum softener	<ol style="list-style-type: none"> <li>1. Long Lasting Fragrance: Clothes remain fresh and fragrant for up to 14 days after washing.</li> <li>2. Softness: Comfort smoothens the fibers, thereby providing them with a rich softness that makes them a delight to wear.</li> <li>3. Unbeatable Shine: With each wash, fibers tend to turn dull and lifeless. Using Comfort will ensure your clothes retain their shine and color, for a long time.</li> </ol>	Perfumed fatty acid derivative	Weakly cationic
120	SANIGUARD-7500	Saniguard-7500 is a potent Anti-Bacterial, Anti-Viral, Anti-Fungal, Anti-Mold, Anti-Yeast & Anti-Biofilm. It is a broadspectrum, non-leaching, non-toxic, durable antimicrobial. It is hydrophobic, non-migrating & is not consumed by microorganisms	<ol style="list-style-type: none"> <li>1. It is durable, nontoxic antimicrobial imparting broad spectrum, bio-static activity to the surface of a wide variety of substrates.</li> <li>2. It is non-leaching, non-migrating &amp; is not consumed by microorganisms.</li> <li>3. It is effective against gram positive and gram-negative bacteria, fungi, viruses, Mold, algae &amp; yeasts.</li> <li>4. Prevents deterioration &amp; discoloration caused by bacteria, fungi, algae &amp; yeasts.</li> <li>5. Prolongs the life of an article by inhibiting the growth of bacteria and mildew.</li> <li>6. It provides hygienic freshness. It resists odors through chemical protection.</li> <li>7. It retains the freshness of an article by inhibiting or resisting the growth of odor causing bacterial and mildew (fungus).</li> </ol>	Silane quat ammonium compound	cationic

121	SANIGUARD-ZP	Saniguard-ZP is used as a hygienic finish for textile protection against house dust mites, mildew and rotting. It has highly efficient anti-microbial & anti-fungal properties.	<ol style="list-style-type: none"> <li>1. Material protection: The development of mold stains is thoroughly stopped.</li> <li>2. Combination with a hydrophobic agent can achieve rot-resistance.</li> <li>3. Curability: Microbial damage on the fibers is prevented and their functional properties preserved; the useful life of a consumer article is considerably longer.</li> <li>4. Treated textiles are protected from unpleasant odors and offer greater comfort.</li> <li>5. Broad spectrum of antimicrobial activity against mildew, yeast, bacteria as well as an excellent effect against MRSA.</li> <li>6. Good thermal and chemical stability.</li> <li>7. Suitable for all substrates and good compatibility with numerous textile chemicals (fluorocarbons, binders, softeners, etc.)</li> <li>8. Water-based, solvent-free formula without AOX and dermatologically safe.</li> <li>9. Application in exhaust, padding and in the dye bath.</li> </ol>	Pyrithione derivative	Weakly Anionic / Non-ionic
122	SANIGUARD-ECO	Saniguard-ECO is a solvent free non-leaching anti-microbial agent for durable hygienic finishing of cellulosic synthetics and their blends. It is effective against broad spectrum of pathogenic microbes. Treated fabric substrates complies with AATCC 100, JIS L 1902 test methods	<ol style="list-style-type: none"> <li>1. It is durable, nontoxic antimicrobial imparting broad spectrum, bio-static activity to the surface of a wide variety of substrates.</li> <li>2. It is non-leaching, non-migrating &amp; is not consumed by microorganisms.</li> <li>3. It is effective against gram positive and gram-negative bacteria, fungi, viruses, Mold, algae &amp; yeasts.</li> <li>4. Prevents deterioration &amp; discoloration caused by bacteria, fungi, algae &amp; yeasts.</li> <li>5. Prolongs the life of an article by inhibiting the growth of bacteria and mildew.</li> <li>6. It provides hygienic freshness. It resists odors through chemical protection.</li> <li>7. It retains the freshness of an article by inhibiting or resisting the growth of odor causing bacterial and mildew (fungus).</li> </ol>	quat ammonium compound	Cationic
123	SANIGUARD-MIC	Saniguard-MIC is a concentrated, durable antimicrobial and anti-enveloped virus (includes Novel Coronavirus - COVID-19) finish especially formulated for use in the textile industry.	<ol style="list-style-type: none"> <li>1. Will not affect color.</li> <li>2. Kills enveloped viruses such as flu virus, feline corona virus, H1N1 virus on rigid-flexible surfaces.</li> <li>3. No effect upon wash fastness.</li> <li>4. Safe and hygienic</li> <li>5. Controls a broad spectrum of Gram Positive and Gram Negative microorganisms.</li> <li>6. Preserves fabric to a Hygienic Standard.</li> <li>7. Will prevent discoloration due to microbial attack</li> </ol>	Quat derivative compound	Cationic
124	SANIGUARD ACTIVE	Saniguard Active is durable non-hydrophobic anti-microbial agent imparts durable, broad spectrum, bio-static activity to the surface of a wide variety of substrates. It is leach resistant & non-migrating & is not consumed by microorganisms. Effective against gram positive & gram negative bacteria, fungi, algae & yeast's	<ol style="list-style-type: none"> <li>1. It is durable non-hydrophobic anti-microbial agent imparts durable, broad spectrum, bio-static activity to the surface of wide variety of substrates.</li> <li>2. It is non-leach &amp; non-migrating &amp; is not consumed by microorganisms.</li> <li>3. It is effective against gram positive and gram-negative bacteria, fungi, algae &amp; yeasts. Anti-microbial action is exhibited on contact in the presence of moisture.</li> <li>4. Prevents deterioration &amp; discoloration caused by bacteria, fungi, algae &amp; yeasts.</li> <li>5. Prolongs the life of an article by inhibiting the growth of bacteria and mildew.</li> <li>6. It provides hygienic freshness. It resists odors through chemical protection</li> <li>7. It retains the freshness of an article by inhibiting or resisting the growth of odor causing bacterial and mildew (fungus).</li> <li>8. Does not impair hydrophilicity of treated fabric.</li> </ol>	Silane quaternary ammonium compound	Cationic
125	SANIGUARD-N-AG	Saniguard-N-AG is a pure metallic silver based durable, non-leaching antimicrobial, designed to meet the finishing needs for customers requiring anti-microbial performance durable to multiple cycles of laundering. It is a preferred, safe and natural way to odor free and pathogen free textiles	<ol style="list-style-type: none"> <li>1. A pure, metallic silver in pure deionized water.</li> <li>2. Particle's large surface area allows optimum contact with textile, making it highly effective at deactivating bacteria and other microbes.</li> <li>3. Effectively hooks onto textiles for extended durability wash after wash, estimated for lifetime of garment.</li> <li>4. Non-leaching, remains intact on treated textile and works where needed to protect garment or textile.</li> <li>5. Long lasting performance with minimal amount of silver loading.</li> <li>6. Easy to apply, works invisibly without changing the look or feel of textiles. Safe on skin, safe on textiles, safe for the environment.</li> <li>7. Easily applied through standard finishing processes- Exhaust, Padding, Spray, Moulding, coating processes.</li> <li>8. Does not affect color or handle; Whites remain white.</li> </ol>	Pure metallic silver	Weakly cationic/ Non ionic
126	Aquarepel XC-630-ECO	Aquarepel-XC-630-ECO is C6 chemistry based fluorocarbon concentrated product for technical articles and synthetic based fibers for water, oil and alcohol-repellent effects.	<ol style="list-style-type: none"> <li>1. Main application areas are textiles made of synthetic and cellulosic fibers and their blends 2. It offers high washing durabilities by using a blocked isocyanate.</li> <li>3 It belongs to a generation of high LAD (laundry air dry potential).</li> <li>4 It shows good stabilities against atmospheric conditions and UV-radiation.</li> <li>5 It does neither contain detectable amounts of PFOS nor PFOA.</li> </ol>	Dispersion of a fluorine compound	Weakly cationic

127	Aquarepel XC-630-N	Aquarepel-XC-630-N is C6 chemistry based fluorocarbon concentrated product for technical articles and synthetic based fibers for water, oil and alcohol-repellent effects.	1. It offers high washing durabilities by using a blocked isocyanate. 2. Due to non ionic nature no roller buildup issues in long running	Dispersion of a fluorine compound	Non ionic
128	AQUAREPEL-ZERO-FC	A long-lasting, fluorine-free water repellent finish targeted to fabrics used in outdoor, leisure and sportswear applications.	1. Water repellency: It offers superior water repellency levels to existing fluorine-free products available on the market and close to C6 fluorochemicals. To recover the water repellency after laundering, ironing is not necessary. 2. Pleasant touch: softness and bulky hand-feel ensures the fabric stays pleasant to the touch. 3. No impact on breathability of the fabric. 4. Sustainability: fluorine-free. Ecofriendly. 5. Free from PFCs (Perfluorinated) & banned substances.	Polymers of high branched dendrimers in a matrix of hydrocarbon	Cationic
129	AQUAREPEL-XAN	A fluorocarbon extender with outstanding effect improvement in combination with fluoro chemicals. Optimizing the oil & water repellent effects on delicate articles	1 Marked improvement of the fastness to washing and dry cleaning & abrasion resistance. 2 Optimizing the oil and water repellent effects on delicate articles. 3 The fabric protection is retained on a high level.	Dispersion of an oxime blocked polyisocyanate	Cationic / Non-ionic
130	ALLEN ANTIDUST ADP	Specialty product designed to impart anti-pollen & anti-dry dust repellent properties to the treated fabrics.	1. It has the excellent anti-pollen & anti-dry dust effects with good durability under repeated washing. 2. Applicable on apparel fabrics, upholstery, carpets and other household textiles. 3. Does not cause coarsening of handle or any hindrance to water absorbency in treated fabric. 4. It minimizes pollen & dry dust from adhering to the fabrics & allows easy removal of dust & pollen from the fabric. Imparted properties are durable to multiple wash & dry-clean cycles.	Modified ceramic Nano-dispersion	Non-ionic / weakly cationic
131	GLOGARD-CP-NEW	Glogard-CP-NEW is based on an organo phosphorus compound, durable flame retardant for 100% cellulosic, silk, and viscose & its blended goods.	1. It is an excellent flame retardant for natural & regenerated cellulosic goods (except Jute), which imparts a finish durable to multiple washing & dry-cleaning cycles. 2. It is non-corrosive with high phosphorus content & mainly used in protective work wear, all general outdoor, special wear, interior goods, home textiles etc. 3. Mainly by padding application 4. Fabric treated with it is resistance to laundering & dry-cleaning. 5. Good retention of handle & drape after processing. 6. Is non-blooming (without white residue on the surface of the fabric).	Organo phosphorus compound, fiber-reactive	Nonionic
132	Gloguard THPS U	Glogard-THPS is a durable flame retardant for cellulosic & protein fibers and their blends with synthetic fibers (synthetic component does not exceed 30% of total fabric wt.).	1. Excellent wash durability. 2. Soft handle 3. Least tonal change	Tetrakis Hydroxymethyl Phosphonium sulphate	Nonionic
133	GLOGARD-SCO	Glogard-SCO is resistant-to-soaking flame retardant preferably for cellulose and its blends with synthetic fibers according to BS 5852, part 1.	1. Not sensitive to hard water. 2. Dilutable with cold water. 3. Effects resistant to soaking according to BS-5651. 4. Effects resistant to dry cleaning in water-free systems. 5. High drying temperatures up to 170°C possible. 6. May cause corrosion of metal parts. 7. Does not tend to blooming on the fabric. 8. Dry handle without impairing the soft handle. 10. After pre-trials basically compatible with softeners, fluorocarbon resins, water repellents, synthetic resins based on methylol	Based on ammonium polyphosphate	Weakly anionic
134	GLOGARD-NC	Glogard-NC is a water-soluble, non-durable flame retardant for cellulosic, synthetics and their blended substrates. It is a non-hazardous, readily biodegradable & has no adverse effect on the environment	1. It is durable to dry cleaning & not to washing (non durable). 2. It is suitable for woven, knitted and non-woven fabric substrates. 3. It imparts a soft handle. 4. It is Halogen free	Blend of inorganic and organic salts	Nonionic
135	GLOGARD-PAD	Glogard-PAD is a water-soluble flame retardant for polypropylene, cellulose, synthetics & its blend fibers. It is durable to dry cleaning & not to washing. It imparts a soft handle	1. It is durable to dry cleaning & not to washing (non durable). 2. It is suitable for woven, knitted and non-woven fabric substrates. Polyester, polypropylene, synthetic fibers & their blends. It can be applied by padding, spraying or impregnating 3. It imparts a soft handle.	Blend of inorganic and organic salts	Nonionic
136	Glogard-APP-WS	Glogard-APP-WS is water soluble flame retardant based on Ammonium Polyphosphate with short chain & low polymerization degree.	1. Powder or solid form, stable property, convenient for transportation, storage and use. 2. pH value is neutral & hence safe and stable during production use. 3. High P-N content with appropriate proportion, excellent synergistic effect.	Ammonium polyphosphate	Nonionic
137	PERMAFIN-UR-NEW	Permafin-UR-New is formaldehyde free, self-crosslinking permanent polyether polyurethane polymer. It forms a highly elastic film around the fibers. The basic handle is soft & high bulk. This properties form the basis for a number of applications.	1. Additive for low-formaldehyde resin finishing. 2. Handle modifying agent given full, soft handle. 3. Additive for post-cure resin finishing. 4. For use in felt-free finishes. 5. Improves abrasion resistance and rub fastness. 6. Reduces pilling. 7. Fiber-bonding agent. 8. Very good absorbency & can be used for moisture management & cool finish.	Aqueous preparation of a modified polyether polyurethane	Weakly cationic

138	PERMAFIN-CO	Permafin-CO is a water soluble reactive type of Polyurethane elastomer recommended for use in the finishing of Cellulosic, Polyester as well as their blends, to impart a soft springy finish to both woven & knitted fabrics. The treated fabrics & garments exhibit unique surface smoothness, soft feel similar to touch of a rose petal.	<ol style="list-style-type: none"> <li>1. It is not affected by sunlight or hydrolysis &amp; when cured at temperatures of 130°C-170°C.</li> <li>2. It gives excellent wash fastness &amp; stability, improved tear strength &amp; excellent crease recovery resulting in a lively bouncy handle.</li> <li>3. It is compatible with most chemicals &amp; is extremely suitable for Air Permeability reduction.</li> <li>4. It is an elastomer treatment and since there is no formaldehyde in the system, there is no health hazard</li> </ol>	Ether modified polyurethane	Weakly cationic
139	PERMAFIN-5958	Permafin-5958 is Nano-dispersion self-crosslinking polyether polyurethane for high-grade finishing applications.	<ol style="list-style-type: none"> <li>1. Nano-emulsion for optimal distribution over and penetration into the fabric.</li> <li>2. Forms a film around and between fibers.</li> <li>3. Yields unique properties and application possibilities.</li> <li>4. Anti-pilling treatments.</li> <li>5. Upgrade of resin finish treatments.</li> <li>6. Increased durability of selected softeners and resin finishes.</li> <li>7. Durable hydrophilic finishes on all fibers.</li> <li>8. Improved wet and dry rub fastness.</li> </ol>	Water soluble polyurethane	Non-ionic
140	ALLENFINISH-PU	New generation textile finishing agent based on self-dispersible non reactive ether modified polyurethane.	<ol style="list-style-type: none"> <li>1. Most suitable for synthetic fabrics and their blends with natural fabrics.</li> <li>2. Exhibits good compatibility with amino silicone emulsion and other non-ionic and cationic finishing agents</li> <li>3. Imparts soft and smooth hand to polyester, nylon, rayon and polyester/cotton and polyester/viscose fabrics.</li> <li>4. Imparts excellent resilience to fabrics.</li> </ol>	Ether modified polyurethane	Non-ionic
141	PERMAFIN-UR/Conc	Permafin-UR-Conc is a newly developed reactive concentrated polyurethane resin emulsion for finishing of various kinds of textile fabrics. The polyurethanes are mainly used for antcrease and anti-shrinkage finish of P/C, P/V, cotton and other fabrics.	<ol style="list-style-type: none"> <li>1. It gives excellent softness to rayon, polyester/rayon and polyester/cotton fabrics.</li> <li>2. It gives excellent non-shrinkage and non-crease (anti-crease) properties to fabrics when it is applied in combination with thermosetting resins such as glyoxal resin.</li> <li>3. It does not give yellowing trouble when used for finishing white fabrics.</li> <li>4. It does not give bad effect to the fastness of dyed fabrics.</li> <li>5. It gives the brilliancy to the dark color/shade of the dyed fabrics i.e. it increases the color value of fabrics when used for finishing</li> </ol>	Polyurethane resin	Weakly cationic / non ionic
142	PROFINISH-N-200	Profinish-N-200 is a non-ionic softening agent which gives softening effects on cellulosic and their blends, and on all synthetic fibers with the exception of acrylics	<ol style="list-style-type: none"> <li>1. Low foaming. Easily handled due to its liquid consistency.</li> <li>2. Stable to hard water, as well as to concentrations of acids and alkalis normally resent.</li> <li>3. It is compatible with all types of optical brightening agents, and with dyestuffs of all classes.</li> <li>5. Non-yellowing, even at high drying temperature.</li> <li>6. Gives excellent softening effects on cellulosic and their blends, and on all synthetic fibers with the exception of acrylics.</li> </ol>	Fatty acid derivative	Non-ionic
143	PROFINISH-NI-SPL/CONC	Profinish-NI-SPL-Conc is a non-yellowing, non ionic softener ,	<ol style="list-style-type: none"> <li>1. Does not adversely affect the soiling properties of synthetics or cellulosic and can be used alongside Aquasorb in an anti-soiling finish.</li> <li>2. scorch-resistant softener for application to cottons, cellulosic and their blends with polyester; the finished fabrics also achieve a smooth silky hand.</li> </ol>	Based on fatty acid esters	Non-ionic
144	PROFINISH-2091	Profinish-2091 is a non yellowing softening agent for softening effects on cellulosic and their blends.	<ol style="list-style-type: none"> <li>1. Pourable form.</li> <li>2. Gives excellent surface softness &amp; smoothness to all type of fabric substrates.</li> <li>3. Outstanding effect from a long liquor when used in small amounts.</li> <li>4. Improves the mechanical properties of fibers in subsequent processes such as drafting, winding, reeling, knitting etc.</li> <li>5. Minimal effect on the light fastness &amp; shade of dyeing's &amp; prints.</li> <li>7. Resistant to dry heat up to about 215°C.</li> </ol>	Carboxylic acid amide derivative	Cationic
145	PROFINISH-OC	Profinish-OC is a softener for natural and synthetic fibers. Softening of all fiber types, preferably by exhaustion	<ol style="list-style-type: none"> <li>1. Excellent soft handle on all fibers types, especially on PAN.</li> <li>2. Outstanding effect from a long liquor when used in small amounts.</li> <li>3. Improves the mechanical properties of fibers in subsequent processes such as drafting, winding, reeling, knitting etc.</li> <li>4. Increases the elasticity of textured polyamide crimped yarn.</li> <li>5. Minimal effect on the light fastness &amp; shade of dyeing &amp; prints.</li> <li>6. Improves sewability.</li> </ol>	Carboxylic acid amide derivative	Cationic
146	PROFINISH-CWS/CONC	Profinish-CWS-Conc is a cold water soluble cationic softener flakes which gives excellent softness and smoothness to all type of fabrics.	<ol style="list-style-type: none"> <li>1. Gives excellent softness &amp; smoothness to all type of fabric substrates.</li> <li>2. Improves the mechanical properties of fibres in subsequent processes such as drafting, winding, reeling, knitting etc.</li> <li>3. Increases the elasticity of textured polyamide crimped yarn.</li> <li>4. Minimal effect on the light fastness &amp; shade of dyeing's &amp; prints.</li> <li>5. Improves sewability.</li> </ol>	Fatty acid derivative	Cationic

147	PROFINISH-SS	Profinish-SS is a hydrophilic softener for cellulosic fibers, especially for terry goods, underwear or sportswear that require a good absorption, jet-stable. It is an excellent antistatic softener for synthetic fibers like polyester, acrylic etc.	<ol style="list-style-type: none"> <li>1. No influence on existing hydrophilic fabric properties.</li> <li>2. Affinity for the fiber.</li> <li>3. Applicable in exhaust or pad processes.</li> <li>4. Low-foaming &amp; jet-stable.</li> <li>5. Resistant to hardness.</li> <li>6. High salt resistance.</li> <li>7. Antistatic effect for synthetic fibers.</li> </ol>	Quat softener	Cationic
148	PROFINISH-RWS	Profinish-RWS is a low-foaming hydrophilic specialty softening agent which imparts a very supple, soft feel and lubricity to cellulosic and synthetics. It also significantly increases overall softness and abrasion resistance when applied to woolen fabrics.	<ol style="list-style-type: none"> <li>1. Gives a silky soft and flowing handle, without impairing water absorbency, to the finished fabric and is particularly suited to toweling, bed-linen, knitted sportswear, hosiery and underwear.</li> <li>2. Has low foaming tendency and is therefore ideal for application in circulating machines like jet and high-speed winch.</li> <li>3. Confers an exclusive full and soft natural feel and improves abrasion resistance of wool and wool blends, increasing fabric tear resistance and durability.</li> <li>4. Shows good resistance to yellowing of whites and dulling of bright colors even when finished goods are subjected to heat treatment or prolonged storage.</li> <li>5. Is particularly suitable as a garment finish and can be applied easily by allowing the garment to soak in an aqueous dispersion of Profinish-RWS (in a bucket, tank, or washing machine) followed by squeezing/spin-drying and ironing.</li> </ol>	Blend of non-ionic and cationic ethoxylated esters	Weakly cationic
149	PERMAFIN-AO	Permafin-AO is a new generation softener and lubricant for all types of fabric substrates. It imparts excellent softness, greasy-soapy handle with antistatic properties. It is pad and exhaust applicable. It is enhanced organic softener	<ol style="list-style-type: none"> <li>1. The economical aspects of Permafin-AO makes it an excellent general purpose softener, as well as a synergistic component of actual softener system to extend the effects of more expensive softeners such as silicone softeners.</li> <li>2. It offers good internal lubricity &amp; drape.</li> <li>3. It improves abrasion, tear &amp; ozone protection.</li> <li>4. It offers enhance antistatic properties, which help control static build up during processing</li> </ol>	Amide siloxane	Cationic
150	TEXTILE FINISHER-EXL	Textile Finisher-EXL is a cationic reactive high molecular elastomer developed for application on dyed & printed knit & woven blended fabrics. Enhanced organic or it is premium catasilicone	<ol style="list-style-type: none"> <li>1. It imparts a soft slick handle with bulkiness on synthetics &amp; their blends.</li> <li>2. Its substantivity makes it an excellent softener for wool, cotton viscose &amp; their blends with synthetics.</li> <li>3. It imparts surface smoothness on wool &amp; silk fiber &amp; thus improves their drapability &amp; fall.</li> <li>4. Its polarity enhances static dissipation.</li> <li>5. It maintains softness even during resin finishing &amp; commonly improves tear strength &amp; abrasion resistance. It is dye bath stable &amp; has a slight leveling effect &amp; hence can be used as dyebath softener, lubricant &amp; antistat</li> </ol>	Nitrogenous compound	Cationic
151	PROFINISH-VNO	Profinish-VNO is a universal soft handle finishing agent for CO, CV and their blends. It is easily dispersible in water. It does not cause yellowing of fabrics.	<ol style="list-style-type: none"> <li>1. Universal soft handle finishing of CO, CV and their blends.</li> <li>2. Raising lubricant for cellulosic fibers.</li> <li>3. Suitable for white goods.</li> <li>4. Compatible with resin finishing agents.</li> <li>5. Compatible with optical brighteners.</li> <li>6. Low volatility.</li> </ol>	Fatty acid condensation product	Non-ionic
152	PROFINISH-KL-NEW	Profinish-KL-NEW is a softener for cellulosic fibers and their blends with synthetics.	<ol style="list-style-type: none"> <li>1. Very good softening effects, also on mercerized cotton.</li> <li>2. No impairment of hydrophilic properties.</li> <li>3. Promotes mechanical shrinkage of knitwear.</li> <li>4. Suitable for pretreatment of prints.</li> <li>5. Suitable for white goods.</li> <li>6. Improvement of sewability.</li> <li>7. Application on reactive dyeing's and prints is also possible with pH-values of 6.0 - 6-5.</li> </ol>	Based on quaternary ammonium softener & silicone	Cationic
153	ALLENBLOOM-CVI	Allenbloom CVI is a silicone based color deepening agent designed to increase the depth of primarily polyester and their blended fabrics, dyed in black, navy blue or dark shades by post treatment of fabric. Excellent colour deepening effects are observed on other fabric substrates i.e. cotton, viscose, acetate, acrylic, wool and their blends also.	<ol style="list-style-type: none"> <li>1. It gives colour deepening in dark shades up to 25 – 30 % by pad, dry-cure process.</li> <li>2. Excellent elastic resilience &amp; soft and smooth handle.</li> <li>3. Applicable by pad process only &amp; in garment machines with low turbulence</li> </ol>	Emulsion of modified amino siloxane	Non-ionic
154	AMPLIFY-JET-ECO	Amplify-JET-ECO is a color deepening agent designed to increase the depth of primarily cotton and their blended fabrics, dyed in black, navy blue or dark shades by post treatment of fabric.	<ol style="list-style-type: none"> <li>1. It gives colour deepening in dark shades up to 15 – 30 % by pad, dry-cure process.</li> <li>2. Excellent elastic resilience &amp; soft and smooth handle.</li> <li>3. Applicable by pad process only. For exhaust only to use in garment machine like drum washer</li> </ol>	Emulsion of modified amino silicone	Non-ionic
155	AMPLIFY-BLACK	Amplify-BLACK is a color deepening agent designed to increase the depth of primarily polyester, cotton, wool and their blended fabrics, dyed in black, navy blue or dark shades by post treatment of fabric. Excellent color deepening effects are observed on other fabric substrates i.e. cotton, viscose, acetate, acrylic, wool and their blends also.	<ol style="list-style-type: none"> <li>1. It gives colour deepening in dark shades up to 25 - 30%.</li> <li>2. Excellent elastic resilience &amp; soft and smooth handle.</li> <li>3. Applicable by pad &amp; exhaust process.</li> <li>4. Amplify Black treated fabric gives least amount of thermo migration in polyester fabrics</li> <li>5. Excellent colour deepening agent for denim &amp; sulphur dyed garments</li> </ol>	Modified amino siloxane	Non-ionic

156	POWERSIL-AE	Powersil-AE is a macro silicone emulsion suitable for the impregnation of all kinds of fibers and textiles.	<ol style="list-style-type: none"> <li>1 It improves sewability, wash-and-wear properties, easy iron and crease recovery.</li> <li>2 It has very little effect on the degree of whiteness.</li> <li>3. No adverse effect on the shade or color fastness properties of colored goods is observed.</li> <li>4. It imparts a very soft, drapable and elastic hand to a wide range of fiber materials such as cotton, polyester, viscose and their mixtures.</li> </ol>	Silicone fluid emulsion	Nonionic
157	DERMASIL-SIG-LV	Dermasil-SIG-LV is a concentrated silicone-based auxiliary. It imparts a pleasingly soft dry handle to pigment-printed fabrics and improves their fastness.	<ol style="list-style-type: none"> <li>1. Dermasil-SIG-LV improves the moist, tacky handle that sometimes results from using very soft binders.</li> <li>2. It also acts as a softener and has a positive effect on the brilliance and fastness of the prints, especially the dry rub fastness.</li> </ol>	Polydimethyl siloxane	Non-ionic
158	Supersilsoft PG-LV	Supersil-Soft-PG is micro emulsion concentrate of specially engineered organo functional polysiloxane. It is a premium pigment print softener which imparts soft smooth & non tacky handle. It imparts an exceptionally soft full & luxurious handle along with improved resilience & fabric physicals	<ol style="list-style-type: none"> <li>1. Its fine particles size ensures faster &amp; uniform penetration into the fabric, making it less a surface treatment &amp; more an internal softener.</li> <li>2. Its high concentration makes it extremely economical in usage &amp; easy to handle.</li> <li>3. Provides flexibility by allowing appropriate dilution based on following parameters. a) Fabric to liquor ratio, b) Desired finish and c) Cost.</li> <li>4. The running properties of the print pastes are improved.</li> <li>5. Excellent softness on pigment printed fabric &amp; improves rub fastness properties of prints.</li> <li>6. Premium smoothness &amp; non-tacky handle on printed fabrics.</li> <li>7. Improvement in fabric physicals, tear strength, abrasion resistance, cut and sew performance, bending rigidity and co-efficiency of friction. 8. It complies with cyclic ( D4, D5, D6) contents of below 1000 ppm.</li> </ol>	Functional polysiloxane	Weakly cationic / non-ionic
159	POWERSIL-171	Powersil-171 is weakly cationic micro emulsion of an organo modified poly siloxane. It imparts extremely soft, silky, smooth handle on all types of fabric. Particle size of Powersil-171 is particularly designed to the degree of fabric softness. It penetrates deep into the fiber bundle giving a luxurious soft handle	<ol style="list-style-type: none"> <li>1. Gives excellent soft, smooth &amp; elastic handle on all types of woven &amp; knit fabrics &amp; garments</li> <li>2. Can be applied by pad and exhaust.</li> <li>3. Improved sewability.</li> <li>4. Improved crease recovery angle &amp; resilience.</li> <li>5. Improved tear strength &amp; abrasion resistance.</li> <li>6. Its fine particles size ensures faster &amp; uniform penetration into the fabric, making it less a surface treatment &amp; more an internal softener.</li> <li>7. Premium softness &amp; silky luxuries handle on woven &amp; knitted fabrics.</li> </ol>	Emulsion of modified amino siloxane	Weakly cationic
160	POWERSIL-2271	Powersil 2271 is a silicone softener composed of amino modified polysiloxane as its principal active compound. It imparts excellent lubrication and smoothness. It increases tensile resilience, gives springy elastic handle and a unique softness on various fabrics. It has a strong affinity for all fibers since it has a reactive amino functional group in its structure. Treated fabric exhibits very smooth handle	<ol style="list-style-type: none"> <li>1. It imparts a unique hand coupled with durable wrinkle recovery.</li> <li>2. It gives excellent and durable softness, crease resistance, flexibility especially on cotton, nylon, polyester, acrylics and their blended knit.</li> <li>3. It is very economical in usage and easy to handle.</li> <li>4. Gives very good surface smoothness</li> </ol>	Emulsion of modified amino siloxane	Nonionic
161	DERMASIL-180	Dermasil-180 is an eco-friendly, concentrated silicone softener, composed of diamino functional polysiloxane as its principal active compound. It imparts excellent softness and smoothness. It increases tensile resilience, gives springy elastic handle and a unique handle on various fabric substrates. It has a strong affinity for all fibers since it has a reactive amino functional group in its structure. APEO free.	<ol style="list-style-type: none"> <li>1. It imparts a unique hand coupled with durable wrinkle recovery.</li> <li>2. It gives excellent and durable softness, crease resistance, flexibility especially on cotton, nylon, polyester, acrylics and their blended knit.</li> <li>3. It is very economical in usage and easy to handle.</li> <li>4. Gives very good surface smoothness</li> </ol>	Emulsion of modified amino siloxane	Non-ionic
162	SOFTSIL-MI	Softsil-MI is an economical micro emulsion concentrate of specially engineered amino modified silicone. It imparts an exceptionally soft full hand & luxurious handle along with improved resilience & fabric physicals	<ol style="list-style-type: none"> <li>1. Its fine particles size ensures faster &amp; uniform penetration into the fabric, making it less a surface treatment &amp; more an internal softener.</li> <li>2. Its high concentration makes it extremely economical in usage &amp; easy to handle. Further provided flexibility by allowing appropriate dilution based on following parameters. a) Fabric to liquor ratio, b) Desired finishes i.e. softness etc. and c) Cost of finish.</li> <li>3. Easy to dilute</li> </ol>	Functional polysiloxane	Cationic / Non-ionic
163	SYLAST-FG-196	Sylast-FG-196 is a non-ionic concentrated micro emulsion of an organo modified poly siloxane. It imparts extremely soft, silky, smooth handle on all types of fabric. Particle size of Sylast-FG-196 is particularly designed to the degree of fabric softness. It penetrates deep into the fiber bundle giving a luxurious soft handle	<ol style="list-style-type: none"> <li>1. Gives excellent soft, smooth &amp; elastic handle on all types of woven &amp; knit fabrics.</li> <li>2. Can be applied by pad and exhaust.</li> <li>3. Improved sewability.</li> <li>4. Improved crease recovery angle &amp; resilience.</li> <li>5. Improved tear strength &amp; abrasion resistance.</li> <li>6. Its fine particles size ensures faster &amp; uniform penetration into the fabric, making it less a surface treatment &amp; more an internal softener.</li> <li>7. Its high concentration makes it extremely economical in usage &amp; easy to handle.</li> <li>8. Further provided flexibility by allowing appropriate dilution based on following parameters. a) Fabric to liquor ratio (b) Desired finishes i.e. softness etc. (c) Cost of finish.</li> <li>9. Premium softness &amp; silky luxuries handle on woven &amp; knitted fabrics.</li> <li>10. Improvement in strength &amp; recovery in knitted fabrics (elastomeric property).</li> </ol>	Modified polysiloxane & specialty surfactants	Non-ionic

164	LUBALLEN-AH	Luballen-AH is a nonionic micro emulsion of hydrophilic hindered amino fluid designed for imparting a full, soft silky hand coupled with excellent surface smoothness, improved D.P. ratings & fabric physicals. It is completely non-yellowing even at elevated temperatures. It is optical brightening agent compatible.  Shear stable & hence suitable for high turbulence machines like jet & softflow	<ol style="list-style-type: none"> <li>1. Imparts a very soft &amp; silky handle with excellent surface smoothness.</li> <li>2. Non-yellowing finish even at high temperatures making it suitable for full white fabrics &amp; dyed fabrics with large white grounds.</li> <li>3. Due to its OBA compatibility &amp; non yellowing character it can be used on OBA or full white fabrics.</li> <li>4. Enhanced wrinkle resistance &amp; wash and wear ratings.</li> <li>5. Its fine particle size ensures easier &amp; uniform penetration into the fibre making it an excellent internal softener.</li> <li>6. Good inter fiber lubricity with reduced blending rigidity resulting in improved drape &amp; full of fabric.</li> <li>7. No effect in dyed shades. Improved tear strength, tensile resilience abrasion resistance, sewability &amp; cut and sew performance.</li> <li>8. Shear stable &amp; hence suitable for high turbulence machines like jet &amp; softflow.</li> </ol>	Hindered amino silicone emulsion	Non-ionic
165	MICRODERM-DPR	Microderm-DPR is a semi-micro emulsion of an epoxy modified organo functional silicone elastomer to give permanent finish on all types of fibres and blends.	<ol style="list-style-type: none"> <li>1. Excellent elastic resilience.</li> <li>2. Improved wash &amp; wear effects.</li> <li>3. Imparts smooth, soft handle.</li> <li>4. Improved elastic recovery of knitted goods.</li> <li>5. Prevents loop damage during high-speed industrial sewing.</li> <li>6. Improves the wet rub fastness of dyed fabrics.</li> <li>7. Improves dimensional stability of knit goods.</li> </ol>	Amino modified silicone	Weakly cationic / Non-ionic
166	POWERSIL-360	Powersil-360 is a power packed softener & hand modifier based on proprietary engineered hybrid polysiloxane & APEO free surfactants. The semi micro emulsion is specifically designed to ensure optimum orientation of the modified siloxane on fabric substrates during drying, enabling unsurpassed balance of surface slickness & smooth hand, improved definition of colors, enhanced fabric physical properties, reduced bending rigidity & optimized drape. The effects are durable to multiple cycles of home washing & dry cleaning	<ol style="list-style-type: none"> <li>1. Suitable for all kinds of fabric especially cotton woven &amp; denim garments &amp; fabric. It gives excellent surface smoothness on Polyester wool &amp; woolen fabrics</li> <li>2. It imparts a typically soft, waxy, peaches type handle to fabrics.</li> <li>3. Benefits wash wear performance. Suitable for padding and exhaust method.</li> <li>4. Provides good surface smoothness.</li> <li>5. Treated fabric gives least amount of thermo migration in polyester fabrics.</li> <li>6. Improves color depth &amp; brightness of treated fabric.</li> </ol>	Urethane pre-polymer composition & specialty silicone	Weakly cationic
167	TOPSOFT-DR	Topsoft-DR is a semi-micro emulsion of modified polysiloxane. It imparts a pure unhindered finish characterized by excellent softness & slick surface smoothness. Freeze thaw stable	<ol style="list-style-type: none"> <li>1. Excellent softness with a slick silky handle.</li> <li>2. Excellent surface smoothness with improved fabric drape &amp; fall &amp; enhanced wrinkle recovery.</li> <li>3. Reduced bending rigidity &amp; coefficient of friction.</li> <li>4. Enhanced fabric physicals i.e. tear strength, flex abrasion resistance, cut &amp; sew performance.</li> <li>5. Freeze thaw stable</li> </ol>	Modified polysiloxane	Non-ionic
168	TOPSOFT-HT	Topsoft-HT is a non-ionic macro emulsion of an organo modified poly siloxane containing ultra-low levels of surfactants. It imparts a pure unhindered finish characterized by excellent softness & slick surface smoothness.	<ol style="list-style-type: none"> <li>1. Excellent softness with a slick silky handle.</li> <li>2. Ultra-low yellowing of practically non-yellowing softener.</li> <li>3. Excellent surface smoothness with improved fabric drape, fall &amp; enhanced wrinkle recovery.</li> <li>4. Enhanced fabric physicals i.e. tear strength, flex abrasion resistance, cut &amp; sew performance.</li> <li>5. Negligible effect on dye shades &amp; fabrics whiteness. Permanent finish durable to multiple cycles of home washing &amp; dry cleaning. Pad applicable</li> </ol>	Modified polysiloxane & specialty surfactants	Non-ionic
169	POWERSIL-EPS	Powersil-EPS is non-ionic oil in water macro emulsion of reactive organo modified poly siloxane containing ultra-low levels of surfactants. It imparts excellent softness & slick surface smoothness	<ol style="list-style-type: none"> <li>1. Excellent softness with a slick silky handle.</li> <li>2. Excellent surface smoothness with improved fabric drape &amp; fall &amp; enhanced wrinkle recovery.</li> <li>3. Enhanced fabric physicals i.e. tear strength, flex abrasion resistance, cut &amp; sew performance</li> <li>4. Completely non yellowing</li> </ol>	Hindered amino silicone emulsion	Non-ionic
170	DERMASIL-UP	Dermasil-UP is a Semi-Micro emulsion of a single component, organo functional silicone elastomer for permanent finish on all types of fibers and blends.	<ol style="list-style-type: none"> <li>1. Excellent elastic resilience.</li> <li>2. Improved wash &amp; wear effects.</li> <li>3. Imparts smooth, soft handle.</li> <li>4. Improved elastic recovery of knitted goods.</li> <li>5. Prevents loop damage during high-speed industrial sewing.</li> <li>6. Improves dimensional stability of knit goods.</li> </ol>	Organo functional silicone	Cationic
171	DERMASIL-WA	Dermasil-WA is a non-ionic macro emulsion of reactive amino modified silicone fluid. It imparts very soft, smooth & elastic handle on woven & knitted fabrics.	<ol style="list-style-type: none"> <li>1. Gives excellent soft, smooth &amp; elastic handle on all types of woven &amp; knit fabrics.</li> <li>2. Improves wash &amp; wear properties.</li> <li>3. Improves crease recovery angle, sewability &amp; tear strength.</li> <li>4. Reduces abrasion loss.</li> <li>5. Effects are fast to washing &amp; dry cleaning.</li> <li>6. It has little effect on degree of whiteness.</li> <li>7. No adverse effect on the shade or color fastness properties of colored goods.</li> </ol>	Amino modified silicone fluid	Non-ionic

172	Powersil ACN-	Powersil ACN is highly effective high performance macro emulsion of reactive organo modified polysiloxane, for permanent finish on all types of fabric substrates. Topsoft-EME treated fabric exhibit excellent soft & smooth handle on all types of fabric.	<ol style="list-style-type: none"> <li>1. Gives excellent soft, smooth handle on all types of fabrics especially high value cotton shirting, sheeting fabric.</li> <li>2. Improves sewability, crease recovery &amp; tensile strength of the fabric.</li> <li>3. Give extremely smooth gold finish on cotton knit, cotton lycra &amp; PC knit fabrics</li> <li>4. Improves the stretch &amp; recovery capacity of knit goods.</li> <li>5. Improves tear strength &amp; reduces abrasion loss.</li> <li>6. Effects are fast to washing &amp; dry cleaning</li> </ol>	Modified polysiloxane	Non-ionic
173	POWERSIL-2150	Powersil-2150 is a silicone emulsion of a special organo modified block poly siloxane. It imparts extremely soft, silky, smooth handle on all types of fabric especially cellulosic fabrics. Powersil-2150 penetrate deep into the fiber bundle giving a luxurious soft handle.	<ol style="list-style-type: none"> <li>1. Gives excellent soft, smooth &amp; elastic handle on all types of cellulosic woven &amp; knit fabrics.</li> <li>2. Can be applied by pad and exhaust.</li> <li>3. Its fine particles size ensures faster &amp; uniform penetration into the fabric, making it less a surface treatment &amp; more an internal softener.</li> <li>4. Premium softness &amp; silky luxuries handle on woven &amp; knitted fabrics.</li> <li>5. On cotton, coon lycra &amp; PC knits, by wet on wet pad when used along with Powersil ACN-ECO-30 gives peaches, gold finish</li> </ol>	Modified polysiloxane & specialty surfactants	Non-ionic
174	POWERSIL-3946	Powersil-3946 is block silicone emulsion. Powersil-3946 not only can help provide in-depth softness and slickness, but also features resistance fabric whiteness, re-dye ability, over dye ability and moderate shear stability at a typical bath condition for textile finishing. The softness provided by Powersil-3946 is durable for numerous detergent washes	<ol style="list-style-type: none"> <li>1. The new modified group endows the fabric with excellent soft, smooth, silky handle especially on cotton &amp; cotton rich blends</li> <li>2. Effectively solved the problem of demulsification and sticking to the roller.</li> <li>3. Outstanding compatible performance.</li> <li>4. If complexed with the amino silicone oil, it will improve the application performance</li> </ol>	Block Amino silicone emulsion	Weakly cationic / Non-ionic
175	Powersil-5350	Powersil-5350 endows the fabric with excellent soft, surface smoothness & silky handle. It has outstanding stability at the high temperatures. Treated fabric delivers soft, surface smooth, silky feel to various fabrics, especially the plain fabrics, such as trousers, polyester, polyester viscose & on fleece fabrics	<ol style="list-style-type: none"> <li>1. Effectively solved the problem of demulsification and sticking to the roller.</li> <li>2. Outstanding compatible performance.</li> <li>3. If complexed with the amino silicone oil, it will improve the application performance.</li> <li>4. Powersil-5350 gives excellent surface smoothness on cotton &amp; viscose rayon fabric.</li> <li>5. It has high performance on price ratio compared with the other common blocking silicon oil.</li> </ol>	Modified polysiloxane & specialty	Non-ionic / weakly cationic
176	POWERSIL-SSX	Powersil-SSX is an emulsion especially developed for pile fabrics made of polyester & polyester rich textiles like rugs, bath mats, chenille, mink fabrics etc. Treated fabric gives soft, greasy, excellent smooth surface on all type of fabrics	<ol style="list-style-type: none"> <li>1. Treated fabric exhibits fluffy smooth feel.</li> <li>2. Shear stable hence suitable in application in high turbulence equipment's like JET, Soft flow machine etc.</li> <li>3. Suited for all type of fabrics especially polyester &amp; polyester rich blend</li> <li>4. Treated fabric exhibits fluffy smooth slick feel on cotton, polyester mink, rugs, fleece, chenille fabrics.</li> </ol>	Emulsion of siloxane & silicones, polyether	Weakly cationic / non-ionic
177	POWERSIL-6053	Powersil-6053 treated fabric gives excellent surface smoothness & softness on Polyester viscose suiting, PC blends, etc Best softener for PV suiting.	<ol style="list-style-type: none"> <li>1. Provides a high level of softness (inner softness for all types of synthetic fabric especially polyester &amp; their blends.</li> <li>2. Does not cause fabric yellowing.</li> <li>3. Luxuriously silky, drape-able and in-depth softness, as opposed to a slippery hand-on fabric surface that is typically imparted by amino functional silicones.</li> <li>4. Suitable for all normal application methods, such as pad bath, exhaustion and spray.</li> </ol>	Block amino silicone emulsion	Non-ionic
178	POWERSIL-4151	Powersil-4151 is an emulsion especially developed for piled fabrics made of polyester & polyester rich textiles like rugs, bath mats, chenille, mink fabrics etc	<ol style="list-style-type: none"> <li>1. Treated fabric gives excellent smooth fluffy and greasy surface on all type of fabrics fluffy</li> <li>2. Shear stable hence suitable in application in high turbulence equipment's like JET, Soft flow machine etc.</li> <li>3. Suited for all type of fabrics especially polyester &amp; polyester rich blend.</li> </ol>	Block silicone	Weakly cationic / non-ionic
179	POWERSIL-6580	Powersil 6580 is economical block silicone with excellent soft smooth hand feel especially on cotton woven & knitted fabric & its blends.	<ol style="list-style-type: none"> <li>1. Ultra-low yellowing.</li> <li>2. Excellent stability under most finishing conditions, including jet/overflow, etc.</li> </ol>	Block silicone	Weakly cationic / non-ionic
180	POWERSIL-5800	Powersil-5800 is a durable macro hydrophilic, non-yellowing silicone softener designed to exhibit smooth and greasy voluminous hand on all type of fabric substrates especially for cotton sheeting fabrics	<ol style="list-style-type: none"> <li>1. Imparts excellent softening without hampering the hydrophilicity of the fabric.</li> <li>2. Imparts durable, wash resistant softness to fabrics.</li> <li>3. Non-yellowing &amp; shear stable.</li> <li>4. Suitable for cotton woven, knits &amp; its blends.</li> </ol>	Emulsion of modified amino siloxane	Weakly cationic / non-ionic
181	POWERSIL-5865	Powersil-5865 endows the fabric with excellent soft, surface smoothness & silky handle. It has outstanding stability at the high temperatures. Treated fabric delivers soft, surface smooth, silky feel to various fabrics, especially the plain fabrics, such as trousers, polyester & polyester viscose fabrics	<ol style="list-style-type: none"> <li>1. Effectively solved the problem of demulsification and sticking to the roller.</li> <li>2. Outstanding compatible performance.</li> <li>3. If complexed with the amino silicone oil, it will improve the application performance.</li> <li>4. Powersil-5865 gives excellent surface smoothness on cotton &amp; viscose rayon fabric.</li> <li>5. It has high performance on price ratio compared with the other common blocking silicon oil</li> </ol>	Emulsion of modified amino siloxane	Non-ionic

182	Flexsil BQ	It is a organo-modified polydimethylsiloxane terpolymer. It imparts a very soft, smooth, and silky touch & luxurious touch with an ultra-soft feel for all types of fabrics, imparting resilience properties in fabric and It has very little effect on the degree of whiteness.	<ol style="list-style-type: none"> <li>1. Excellent softener with outstanding hand feel on cotton &amp; PC knitted fabrics.</li> <li>2. It imparts excellent hydrophilic nature especially in cotton, yarn dyed cotton, polyester cotton and polyester for woven, non-woven, knitted and mercerized fabrics.</li> <li>3. It imparts comfort surface smoothness &amp; antistatic properties.</li> <li>4. It is suitable for knit processing in different finishing machines, especially in high speed &amp; high shear machines for broad range of cotton, blends, polyester &amp; viscose fabric.</li> <li>5. It also has chlorine water fastness properties.</li> </ol>	Silicone copolymer	Weakly cationic
183	AQUASIL-TF	Macro nonionic to weakly cationic hydrophilic silicone softener for excellent surface smoothness or greasy touch	<ol style="list-style-type: none"> <li>1. The silicone finish provides textiles with an innovative structure that combines outstanding softness with excellent water absorption</li> <li>2. Due to the surface oriented silk like and supple softness effect it is particularly suitable for light woven and knit goods where hydrophilic properties are of importance.</li> </ol>	Emulsion of modified amino siloxane	Weakly cationic
184	AQUASIL-430	Macro nonionic to weakly cationic hydrophilic silicone softener	<ol style="list-style-type: none"> <li>1. The silicone finish provides textiles with an innovative structure that combines outstanding softness with excellent water absorption</li> <li>2. Due to the surface oriented silk like and supple softness effect it is particularly suitable for light woven and knit goods where hydrophilic properties are of importance.</li> </ol>	Emulsion of modified amino siloxane	Weakly cationic
185	POWERSIL-810	Powersil-810 is a self-dispersing polyether-amino-functional silicone fluid. It improves the wear comfort of textiles and is therefore particularly suitable for use with non-woven and terry goods.	<ol style="list-style-type: none"> <li>1. Powersil-810 considerably improves the wear comfort of textiles and is therefore particularly suitable for use with non-woven and terry goods.</li> <li>2. The hydrophilic properties are the result of the special orientation of Powersil-810 on the fiber surface. This allows unrestricted moisture transport within the fabric, together with the excellent hand that is generally associated with high-quality silicone textile softeners.</li> <li>3.</li> </ol>	Self dispersible linear AB quat	Weakly cationic
186	POWERSIL-208	Powersil-208 is a self-dispersing polyether-amino-functional silicone fluid. It considerably improves the wear comfort of textiles and is therefore particularly suitable for use with non-woven and terry goods.	<ol style="list-style-type: none"> <li>1. The hydrophilic properties allows unrestricted moisture transport within the fabric, together with the excellent hand.</li> <li>2. It does not generally affect the color shade or fastness of colored goods.</li> <li>3. It bonds more strongly to the fiber surface than glycol- and quat-functional polysiloxanes. This leads to better exhaustibility and wash resistance.</li> <li>4. Formulations based on it have a pH stability that extends well into the alkaline range.</li> <li>5. It offers good shear stability.</li> </ol>	Self dispersible linear AB quat	Cationic
187	POWERSIL-811	Powersil-811 is a hydrophilic micro concentrate silicone copolymer, unique to impart hydrophilicity in addition to excellent surface smoothness and antistatic properties. Fabric treated with it can be easily re-dyed without any problem dye absorbency in the fabric.	<ol style="list-style-type: none"> <li>1. It imparts excellent hydrophilic nature in the fabric especially in terry towel, polyester, polyester-cotton and polyester for woven, non-woven and mercerized knitted fabric.</li> <li>2. Imparts excellent softness and better softening effect.</li> <li>3. Antistatic.</li> <li>4. Excellent exhaustibility.</li> <li>5. Compatible with wide range of finishing bath.</li> <li>6. Eco friendly.</li> </ol>	Silicone copolymer	Weakly cationic
188	POWERSIL-750	Powersil-750 is a concentrated hydrophilic silicone emulsion which improves the wear comfort of textiles. It is used for hydrophilic treatment of fibers & textiles of all kinds.	<ol style="list-style-type: none"> <li>1. It improves the wear comfort of textiles.</li> <li>2. It allows unrestricted moisture transport within the fabric, together with the excellent smooth hand.</li> <li>3. It imparts silk like and supple softness effect and is suitable for light knitted and woven goods of all kinds of fibers where hydrophilic properties are of importance.</li> <li>4. It bonds more strongly to the fiber than glycol and quatfunctional polysiloxanes. This leads to a better exhaustibility and wash resistance.</li> </ol>	Based on silicone fluid, functional	Non-ionic/ weakly cationic
189	DERMASIL-JSS	DermaSil-JSS is a revolutionary product that possesses outstanding stability under alkaline conditions at high temperature conditions under which conventional amino silicone emulsions separate and cause silicone spots. It delivers a soft, silky and full hand feel with a hydrophilic property to various fabrics at lower use levels than other products. It can be applied to a variety of fabrics to deliver outstanding softness with very little yellowing compared to conventional amino silicones	<ol style="list-style-type: none"> <li>1. Amazing silicones softeners with virtually no yellowing.</li> <li>2. Can be used on all types of cotton and synthetic fabrics.</li> <li>3. Easy to handle liquid that is dilutable in water with minimal stirring.</li> <li>4. Compatible with most finishing additives.</li> </ol>	Amino modified polysiloxane fluid	Weakly cationic
190	AQUASIL-5748	Aquasil-5748 is a durable, hydrophilic silicone softening and smoothing agent for textiles of all fiber types. Treated fabric confers voluminous handle effects, especially suitable for white goods or microfibers. Treated fabric does not have any impact on chlorine fastness properties (pool water fast softener). It has high & super high shear alkali stability & anionic stability.	<ol style="list-style-type: none"> <li>1. It is a hydrophilic micro emulsion of new generation silicone copolymer. It imparts very good Hydrophilicity and surface smoothness on terry towels &amp; knits made of cellulose and its blends.</li> <li>2. Imparts excellent soft bulky handle.</li> <li>3. Towels appear bulked and extremely soft.</li> <li>4. Good hydrophilic properties and water retention.</li> <li>5. Imparts fabric comfort and surface smoothness. Good water retention required for high end towels is well achieved by customized recipes involving this product.</li> <li>6. Shear-stable and low-foaming. Very good mechanical stability.</li> </ol>	Proprietary silicone copolymer with reactive groups	Weakly cationic

191	Powersil SIQ/conc	Silicone softener for imparting excellent softness and luxurious surface smoothness, hydrophilic and antistatic properties to all kinds of fabrics.	1.Offers softness along with hydrophilicity to cotton and other natural fabrics. Extremely useful for application on terrytowels and clothes in intimate contact withbody Offers excellent anti-static properties 2. does not cause any yellowing on white fabrics. 3.Helps garments keep their shape during washing, drying and wearing 4. It complies with cyclic ( D4, D5, D6) contents of below 1000 ppm.	Emulsion of modified amino siloxane	Weakly cationic / Non-ionic
192	Powersil TSP/conc	Softener and smoothing agent for woven and knitted fabrics composed of cellulosic fibres, wool and synthetic fibres and their blends.	1. Improves the tear strength, abrasion resistance and sewability. Gives a very smooth, soft handle. Very good wash resistance. 2. It exhibits very soft smooth greasy handle on knits. 3. Greater stability to shearing forces & hence suitable in application in high turbulence equipment's like JET, Soft flow machine etc. 5. Stable over wider range of temperature. 6 I ncreases the resilience of wovens and improves the elastic recovery of knitgoods.	Emulsion of modified aminosiloxane	Non-ionic
193	AQUASIL-LUX	A speciality hydrophilic softener for all types of fabrics, especially terry towels and knits	1. Imparts excellent softening without hampering the hydrophilicity of the fabric. Excellent pile retention. Especially suitable for terry towels 2.Low viscosity & pumpable. Suitable for auto-dispensing systems.	Emulsion of modified amino siloxane	Weakly Cationic
194	Powersil HM Plus(Biobased)	Silicone softener for imparting excellent softness and luxurious surface smoothness, hydrophilic and antistatic properties to all kinds of fabrics.	1.Offers softness along with hydrophilicity to cotton and other natural fabrics. Extremely useful for application on terrytowels and clothes in intimate contact withbody Offers excellent anti-static properties 2. does not cause any yellowing on white fabrics. 3.Helps garments keep their shape during washing, drying and wearing 4. It complies with cyclic ( D4, D5, D6) contents of below 1000 ppm. 5. Emulsified using plant based fatty alcohols ethoxylates	Emulsion of modified amino siloxane	Weakly cationic / Non-ionic
195	Powersil 7087	Silicone softener for imparting excellent softness and luxurious surface smoothness, hydrophilic and antistatic properties to all kinds of fabrics.	1.Offers softness along with hydrophilicity to cotton and other natural fabrics. Extremely useful for application on terrytowels and clothes in intimate contact withbody Offers excellent anti-static properties 2. does not cause any yellowing on white fabrics. 3.Helps garments keep their shape during washing, drying and wearing 4. It complies with cyclic ( D4, D5, D6) contents of below 1000 ppm. 5. Emulsified using plant based fatty alcohols ethoxylates	Emulsion of modified amino siloxane	Weakly cationic / Non-ionic