

| Product Name  | Product Description (few lines)                                                                                                                                                                                                                                                                                                               | Features & Benefits (4-5 pointers)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Chemical Base                         | Ionic Character |
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| ALTRANOL-RK   | Altranol-RK 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.                                                                                                                                                | 1. Is free from chlorinated solvents and banned/ harmful chemicals.<br>2. Is a powerful cleaning agent even at ambient temperatures to remove oily contamination from all substrates, ensuring clear and uniform dyeing's.<br>3. Does not contain alkyl phenol ethoxylates (APEO-free auxiliary) and has minimum effluent problems.<br>4. Is suitable for batch wise application and in continuous processing ranges                                                                                                                                 | Fatty alcohol alkoxylate              | Non-ionic       |
| Altranol NPA  | Protecting agent to prevent degradation of cotton/nylon and cotton/elastane in bleaching and heat setting                                                                                                                                                                                                                                     | 1. Prevents yellowing of polyester/nylon and their blends with elastane in heat setting<br>2. Especially good for Optically brightened whites and pale shades                                                                                                                                                                                                                                                                                                                                                                                        | Specialty products and surfactants    | Nonionic        |
| Altranol GR   | Scouring agent for polyester/nylon/ elastane blends. Auxiliary to reduce yellowing of polyamide, polyester and blends of these fibers with spandex fibers during heat setting                                                                                                                                                                 | 1. Prevents yellowing of polyester/nylon and their blends with elastane in heat setting<br>2. Especially good for Optically brightened whites and pale shades<br>3. prevents the oxidation of the amino-end groups of polyamide during heat-setting. Due to this prevention-mechanism, higher colour-yields can be found when dyeing polyamide and result in better reproducibility.                                                                                                                                                                 | Specialty products and surfactants    | Nonionic        |
| Altranol ELB  | Clay based wetting/ scouring/ emulsifying agent for cotton/lycra blends                                                                                                                                                                                                                                                                       | 1. Removes waxes, mineral and silicone oils<br>2. APEO Free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Clay based with surfactants           | Nonionic        |
| ALTRAPLEX-PW  | Altraplex-PW is a fiber protecting agent for dyeing wool at low temperatures or with a shorter dyeing time at 98°C. It protects wool fiber damage.                                                                                                                                                                                            | 1. Good dye yield when dyeing wool and other animal hair/fiber below the boil (e.g. at 85°C).<br>2. Shorter dyeing time at 98°C.<br>3. Leveling and dispersing action.<br>4. Beneficial when applied in the iso-electric range of wool.<br>5. Softening properties; maintains the quality of the wool.<br>6. Good wetting out.<br>7. Low foaming.                                                                                                                                                                                                    | Complex polycarboxylates preparation  | Non-ionic       |
| ALTRAPLEX-WPA | A fiber protective agent for wool when dyeing PES/WO blends at temperatures up to max 120°C.                                                                                                                                                                                                                                                  | 1. Counteracts the degradation of keratin by cross-linking.<br>2. Textiles treated with Altraplex-WPA are practically formaldehyde-free.                                                                                                                                                                                                                                                                                                                                                                                                             | Based on complex polycarboxylates     | Anionic         |
| Dermaset-342  | Chemical fixation of wool and wool blends                                                                                                                                                                                                                                                                                                     | 1. Anti felt finishing without pre-chlorination.<br>2. Improved dimensional stability, stretch capacity and elastic recovery, reduced pulling and snagging. Improved abrasion resistance.                                                                                                                                                                                                                                                                                                                                                            | Thermo-reactive polyurethane          | Anionic         |
| DERMASET-BAP  | Dermaset-BAP is a special finishing agent for articles made of wool and wool blends for antifelt finishing without pre-chlorination, improved dimensional stability, stretch capacity and elastic recovery, reduced pulling and snagging, improved abrasion resistance, modification of the handle (volume, harshness) on all types of fiber. | 1. For felt-free finishing of wool which have not been pre-chlorinated.<br>2. Excellent shrink resist, wash and wear finish on wool and its blends.<br>3. Improves stretch and shape recovery especially on knit goods.<br>4. Reduces pilling and snagging and improves abrasion fastness.<br>5. Excellent dimensional stability and synergistic effect.<br>6. No significant deterioration on shade and fastness.<br>7. Negligible impairment on the degree of whiteness.                                                                           | Thermo-reactive polyurethane          | Anionic         |
| 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.                                                                                                                                                                       | 1. Used for finishes on denim such as French Frost, ice wash, white wash, snow wash and acid wash.<br>2. Also used to achieve a 'worn' appearance on light weight garments like fleece and T-shirts.<br>3. Can be used at different dosages to obtain many finishes.<br>4. Gives very good ocean wash effect on corduroy fabric.<br>5. It is non-aqueous method for fading a previously dyed denim fabric.<br>6. When used suitably it can achieve the following effects:<br>- Cracked look<br>- Ice look<br>- Bright white look<br>- Black sky look | Semectite clay & alkali metal salt    | Non-ionic       |
| 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.                     | 1. Gives excellent chlorine resistance. Gives excellent pool water fastness.<br>2. All round product for reactive and direct dyeing's, excellent improvement of contact water fastness.<br>3. Contact fastness of basic, sulphur, vat, direct & reactive dyeing's are distinctly improved & so suitable for polyacrylics, cellulose & regenerated cellulosic fabrics.<br>4. None or only minimum influence on shade change and light fastness. No influence on handle and absorbency.                                                                | Polyetheramine in aqueous solution    | Cationic        |
| DYEFIX-NCF    | Concentrated dyefixing agent to improve chlorine fastness for metal complex & acid dyes on nylon,                                                                                                                                                                                                                                             | 1. Chlorine fastness for nylon or polyamide fabrics<br>2. Excellent pool water fastness for swim wear made of polyamide or nylon.                                                                                                                                                                                                                                                                                                                                                                                                                    | Methylene linked condensation product | Anionic         |
| AQUASORB-OZ   | Aquasorb-OZ is a fatty acid amido amine softener used to protect indigo dyestuff against ozone fading.                                                                                                                                                                                                                                        | 1. This product has low viscosity that lends itself to easy handling in most automated feed systems. It does not carry a red label.<br>2. It is a complex amido amine phosphate used to protect indigo dyed fabrics and garments against ozone & NOx fading .<br>3. Economical & Eco-friendly.                                                                                                                                                                                                                                                       | Quaternary Ammonium Compound          | Cationic        |

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| AQUASORB-AO-PDR  | Aquasorb-AO-PDR helps protect indigo dyestuff against ozone fading.                                                                                                                                                                                                                                | 1. Ecofriendly, sustainable antiozone in powder form.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mixture of organic and inorganic substances      | Cationic                     |
| ALAROMA-IMR      | Unique microcapsulated product for insect repellent finish on polyester & its rich blend with cotton, viscose etc.                                                                                                                                                                                 | 1. Prevents vectors such as mosquitoes, ticks, tsetse flies etc. from landing/biting.<br>2. It is odorless after drying, & during spray application.<br>3. "Alaroma IMR," has excellent effects based on the mechanism of the direct-contact repelling type.<br>4. It is Oeko-Tex Standard 100, Class I-IV compliance. ZDHC MRSL v3.1 Level 3 compliance.<br>5. Safe for children wear & pregnant and breast feeding women<br>6. Passes WHO/CTD/WHO PES/IC/96.1 & US Patent 5,198,287 & USDA laboratory Method                                                                                                                                                                                                                         | Toluamide complex                                | Non-ionic                    |
| 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.                                                                                                                  | 1. Prevents vectors such as mosquitoes, ticks, tsetse flies etc. from landing/biting.<br>2. Has an outstanding wash resistance & does not influence fabric color.<br>3. Work on knock down action method i.e. and functions as a neurotoxin, affecting neuron membranes by prolonging sodium channel activation<br>3. Passes WHO/CTD/WHO PES/IC/96.1 & US Patent 5,198,287 & USDA laboratory Method                                                                                                                                                                                                                                                                                                                                    | Permethrin complex                               | Weakly anionic               |
| Saniguard-BT-988 | Saniguard-BT-988 is a mothproofing agent against implication of moths, carpet coleopters, hair coleopters and their larvae                                                                                                                                                                         | 1. Moth & beetle-proofing agent for the treatment of wool & its blends, feathers & animal hairs. 2. Highly effective against Tineola/Tinea (moths), Anthrenus (carpet beetles), Attagenus (for beetles) and Hofmannophila. Ps. (false clothes moth).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Synthetic pyrethrum-derivate                     | Slightly Anionic / non-ionic |
| SANIGUARD-EPA    | Saniguard-EPA is a moth & beetle-proofing agent for the treatment of wool & wool blends, feathers & animal hair.                                                                                                                                                                                   | 1. Highly effective against Tineola/Tinea (moths), Anthrenus (carpet beetles), Attagenus (for beetles) and Hofmannophila. Ps. (false clothes moth).<br>2. Wool treated with Saniguard-EPA as instructed in the guide recipes meets the requirements set by the Wool mark Company1), GuT and Wools of New Zealand 1).<br>3. Saniguard-EPA treated uniforms or garments have a knock-down effect on flying insects like mosquitoes and flies and on crawling insects like ants, mites and cockroaches                                                                                                                                                                                                                                    | Preparation of permethrin (synthetic pyrethroid) | Nonionic                     |
| 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                                              | 1. It is durable, nontoxic antimicrobial imparting broad spectrum, bio-static activity to the surface of a wide variety of substrates.<br>2. It is non-leaching, non-migrating & is not consumed by microorganisms.<br>3. It is effective against gram positive and gram-negative bacteria, fungi, viruses, Mold, algae & yeasts.<br>4. Prevents deterioration & discoloration caused by bacteria, fungi, algae & yeasts.<br>5. Prolongs the life of an article by inhibiting the growth of bacteria and mildew.<br>6. It provides hygienic freshness. It resists odors through chemical protection.<br>7. It retains the freshness of an article by inhibiting or resisting the growth of odor causing bacterial and mildew (fungus). | Silane quat ammonium compound                    | cationic                     |
| 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.                                                                                                              | 1. Will not affect color.<br>2. Kills enveloped viruses such as flu virus, feline corona virus, H1N1 virus on rigid-flexible surfaces.<br>3. No effect upon wash fastness.<br>4. Safe and hygienic<br>5. Controls a broad spectrum of Gram Positive and Gram Negative microorganisms.<br>6. Preserves fabric to a Hygienic Standard.<br>7. Will prevent discoloration due to microbial attack                                                                                                                                                                                                                                                                                                                                          | Quat derivative compound                         | Cationic                     |
| Saniguard VIR X  | Saniguard VIR-X is a durable antiviral and antimicrobial Saniguard VIR-X can be widely used for the antiviral and antimicrobial treatment of face masks, air filters, medical gowns/PPEs, curtains, drapes, medical textiles, Uniforms and apparel, towel, bedding products, wet wipes, and others | Saniguard VIR-X is effective on enveloped viruses & naked viruses Saniguard VIR-X inhibits the growth and persistence of bacteria and viruses imparting long-lasting freshness for the textiles and control the reproduction of pathogens, microorganisms at low application levels.                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Quat derivative compound                         | Cationic                     |
| 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             | 1. It is durable, nontoxic antimicrobial imparting broad spectrum, bio-static activity to the surface of a wide variety of substrates.<br>2. It is non-leaching, non-migrating & is not consumed by microorganisms.<br>3. It is effective against gram positive and gram-negative bacteria, fungi, viruses, Mold, algae & yeasts.<br>4. Prevents deterioration & discoloration caused by bacteria, fungi, algae & yeasts.<br>5. Prolongs the life of an article by inhibiting the growth of bacteria and mildew.<br>6. It provides hygienic freshness. It resists odors through chemical protection.<br>7. It retains the freshness of an article by inhibiting or resisting the growth of odor causing bacterial and mildew (fungus). | quat ammonium compound                           | Cationic                     |

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| SANIGUARD-ICU     | Saniguard-ICU 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 for fibers & fabrics. It provides hygienic freshness. It resists odors through chemical protection                     | <ul style="list-style-type: none"> <li>It is a water-based, contains no harsh solvents. Non-flammable.</li> <li>Bleach-free &amp; alcohol-free. Will not leach or wash off once applied.</li> <li>It can be used on almost any surface and are tailored for consumer packaged goods and remediation as effective, user-friendly, end-use products.</li> <li>It is effective against gram positive and gram-negative bacteria, fungi, viruses, Mold, algae &amp; yeasts. Thus provides broad spectrum microbial inhibition on treated fabrics.</li> <li>Prevents deterioration &amp; discoloration caused by bacteria, fungi, algae &amp; yeasts.</li> <li>Prolongs the life of an article by inhibiting the growth of bacteria and mildew.</li> <li>It is successfully used on all class of substrates i.e. Textiles, Plastics, Metal, Rubber, Ceramics, Paper, Wood, Glass, Paints, Resin, Concrete, Cement Surfaces, Grouts, Porcelain, Synthetic Polymers, furniture, cushions, umbrella, etc. It is one-step disinfectants and antimicrobial cleaners for hospitals, schools and homes.</li> </ul> | Silane quat ammonium compound                          | Cationic                   |
| Saniguard Nano-ZN | It is an aqueous nano-dispersion of zinc oxide. It is used as based functional coatings to protect wood, plastics, and textiles from UV and microbial degradation.                                                                                                                                    | Due to its high transparency, long term stability and low mobility, offers UV protection for a range of water based coatings on wood, plastics and textiles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nano zinc dispersion                                   | Nonionic                   |
| Saniguard-AG      | Durable nano silver based hygienic antimicrobial finish for all fibre types except for wool, especially suitable for textiles worn next to the skin                                                                                                                                                   | Non-migrating, antimicrobial effects, bactericidal and slightly fungicidal properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Pure metallic silver                                   | Nonionic                   |
| 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 | <ul style="list-style-type: none"> <li>A pure, metallic silver in pure deionized water.</li> <li>Particle's large surface area allows optimum contact with textile, making it highly effective at deactivating bacteria and other microbes.</li> <li>Effectively hooks onto textiles for extended durability wash after wash, estimated for lifetime of garment.</li> <li>Non-leaching, remains intact on treated textile and works where needed to protect garment or textile.</li> <li>Long lasting performance with minimal amount of silver loading.</li> <li>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>Easily applied through standard finishing processes- Exhaust, Padding, Spray, Moulding, coating processes.</li> <li>Does not affect color or handle; Whites remain white.</li> </ul>                                                                                                                                                                                                | Pure metallic silver                                   | Weakly cationic/ Non ionic |
| Saniguard-FC      | Floor cleaner                                                                                                                                                                                                                                                                                         | Saniguard-FC is used as an antiseptic, bactericidal/microbicidal and sporicide. This product is a nitrogenous cationic surface-acting agent belonging to the quaternary ammonium group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Blend of surfactants                                   | Cationic                   |
| 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>Ensures over 50% reduction in chlorine bleach concentration.</li> <li>Substantial reduction in bleach cycle time allowing for improved productivity.</li> <li>Bleaching process at lower temperatures allowing savings in fuel costs &amp; energy costs.</li> <li>Vastly reduced effluent quantities.</li> <li>Is ECO friendly and environmentally safe.</li> <li>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                   |
| ALTRAPLEX-CI      | Altraplex-CI is a corrosion inhibitor and passive inhibitor for water systems                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>Generally used as passive and corrosive inhibitor of metal structures when water systems are used.</li> <li>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>Does not alter dyes features; in any case preventive tests are recommended.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Corrosion inhibiting agent, phosphoric acid derivative | Non-ionic                  |
| 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                                                                                                                              | <ul style="list-style-type: none"> <li>It minimizes staining of pocketing and labels and keeping filling whiter.</li> <li>It is enzyme compatible and used as a back stain preventing agent for denims and garment processing.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Polycarboxylic acid copolymer                          | Weakly anionic             |
| 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.                                                                                                                              | <ul style="list-style-type: none"> <li>It provides superior soil release properties to polyester and polyester/cotton fabrics.</li> <li>It minimizes staining of pocketing and labels and keeping filling whiter.</li> <li>It is enzyme compatible and used as a back stain preventing agent for denims and garment processing.</li> <li>It is readily dispersible in water to allow for friendlier handling formulations.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Polyester co-polymer                                   | Weakly anionic             |
| ALTRAPERSE-OLG    | Altrasperse-OLG is a dispersing agent for prevention of oligomer deposits. It is used at various stages in polyester production and processing for the removal of oligomer deposits.                                                                                                                  | <ul style="list-style-type: none"> <li>It has an excellent dispersing effect on oligomers in acidic polyester dye baths.</li> <li>Prevents filtration of oligomers in yarn packages.</li> <li>Prevents oligomer deposits on machine parts.</li> <li>Improves running properties of yarn for further processing steps.</li> <li>No influence in shade.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Blend of specialty surfactants                         | Anionic                    |

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| ALTRAPERSE-OLE           | Altrasperse-OLE is a dispersing agent for prevention of oligomer deposits. It is used at various stages in polyester production and processing for the removal of oligomer deposits.                                                                                                                                                                                                                         | 1. It has an excellent dispersing effect on oligomers in acidic polyester dye baths.<br>2. Prevents filtration of oligomers in yarn packages.<br>3. Prevents oligomer deposits on machine parts.<br>4. Improves running properties of yarn for further processing steps.<br>5. No influence in shade.                                                                                                                                                                                                                                                                                                                        | Synthetic (modified) phyllosilicate       | Anionic                     |
| POWERSIL-PRS             | Powersil-PRS provides in-depth luxuriously silky softness and slickness, along with resistance to thermal migration. It can be used with a variety of fabrics, but can be most beneficial for synthetic-fiber fabrics like polyester, polyamide, acrylic fabrics and spandex blends, as well as wool, cashmere and its blends.                                                                               | 1. Provides a high level of softness (inner softness for all types of synthetic fabric especially polyester & their blends).<br>2. Does not cause fabric yellowing.<br>3. Resistant to thermo-migration.<br>4. Suitable for all normal application methods, such as pad bath, exhaustion and spray.                                                                                                                                                                                                                                                                                                                          | Block amino silicone emulsion             | Weakly cationic / Non-ionic |
| POWERSIL-NT-PES          | Powersil-NT-PES is an innovative special silicone emulsion which in contrast to classic formulations does not enhance the thermo-migration of dispersed dyes on polyester fabric.                                                                                                                                                                                                                            | 1. Wash fastness of dyed polyester fabric is closely related to the degree of thermo-migration of disperse dye during heat setting.<br>2. Due to a sophisticated formulation thermo-migration and bleeding is reduced, wash fastness properties are improved & the colour depth is enhanced.<br>3. Suitable for Poly/Viscose, Poly/Wool & polyester fabrics.<br>4. Excellent elastic resilience, soft and smooth handle.<br>5. It is exhaustible silicone with cationic character                                                                                                                                            | Silicone Urethane co-polymer              | Non-ionic                   |
| Permafin-RPP             | Special polyurethane for producing ripple print effect on cellulosic goods.                                                                                                                                                                                                                                                                                                                                  | Maximum elastic recovery & high shrink resistance<br>1. Improves abrasion resistance & reduces pilling<br>2. Forms strong film that is resistant to washing & dry-cleaning                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Polyurethane emulsion                     | Nonionic                    |
| 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                                                                                                                                                                                    | 1. Ensures over 50% reduction in chlorine bleach concentration.<br>2. Substantial reduction in bleach cycle time allowing for improved productivity.<br>3. Bleaching process at lower temperatures allowing savings in fuel costs & energy costs.<br>4. Vastly reduced effluent quantities.<br>5. Is ECO friendly and environmentally safe.<br>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.                                                              | Salified ammonium derivative              | Cationic                    |
| DENIMAX-GC               | Denimax-GC is developed as a product for producing gray cast on denim during hypochlorite bleaching process. The disadvantage of bleaching indigo dyed fabrics with sodium hypochlorite produces a royal blue or powder blue color on fabric & is not desirable always. To overcome this disadvantage the expensive process used is laccase enzyme. Denimax-GC is the chemical substitute of laccase enzyme. | 1. Denimax-GC provides a method of producing the faded appearance in a single step during hypochlorite bleaching produces the desired gray cast on denim. It avoids use of expensive laccase-enzyme products. Shortens the extra step of 30 - 45 mins of enzyme treatment.<br>2. Produces consistence gray cast or shade, unlike in case of laccase enzyme where shade or cast variation cannot be controlled.                                                                                                                                                                                                               | Blend of inorganic salts                  | Non-ionic                   |
| QUENCH-UWP               | Quench-UWP is highly effective fiber stabilizer for reducing yellowing of polyamide and PA blends during exposure of any kind of heat.                                                                                                                                                                                                                                                                       | 1. It prevents especially the yellowing during molding and heat setting processes.<br>2. It protects all types of polyamide fibers and their blends with elastomer fibers against oxidative damage, thus reducing yellowing due to thermic and photochemical influence.<br>3. Avoids yellowing of optical brightened polyamide and it blends during heat setting or molding processes.<br>4. Prevents shade changes of pastel dyed polyamide and its blends during heat setting or molding treatments.<br>5. Highly effective even in small amounts.                                                                         | Carboxylic acid derivative                | Non-ionic                   |
| QUENCH-BA/<br>Neutrox BA | Optical Brightener Quencher. "a highly effective, fast working quenching agent for the fluorescent whitening agents used in the paper industry.                                                                                                                                                                                                                                                              | 1. Unlike conventional UV absorbers quench BA performs the OBA masking function by forming a complex with OBA thereby preventing reemission in visible spectrum.<br>2. Rapid quenching of fluorescence in machine, stock preparation equipment & pipe systems considerably shortens the change-over times.<br>3. Resulting increase in production results in cost benefits which are far greater than the cost of product.<br>4. Helps correct fabrics/garments with localized OBA patches or stains.<br>5. Permits complete removal of OBA from treated textiles.                                                           | Benzene carboxylic acid amide derivative. | Cationic                    |
| QUENCH-PN                | Quench-PN is used for rapid removal of potassium permanganate & hypochlorite residues from processed garments. Potassium permanganate residue removal                                                                                                                                                                                                                                                        | 1. Eliminates coloration produced by manganese dioxide. Potassium permanganate residue removal or PP neutralizer.<br>2. Bleaching process when washing and neutralizing is carried out, it eliminates chlorine rests, it also eliminates eventual resistance loss & yellow produced by chlorine remains.<br>3. Product exempt of odor, which could be usual in other anti-chlorine products.<br>4. Applicable after Ultrafresh MG and other based on permanganate.<br>5. Complete removal of yellow tint from denim after PP treatment & leaving denim look bluer in compare to traditional neutralizer, metabisulfite.<br>6 | Blend of inorganic salt                   | Non-ionic                   |

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| 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.                                                                                                                                                                                                             | <ol 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> </ol>                                                                                                                                                | Inorganic compound                          | Nonionic  |
| 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 | Nonionic  |
| QUENCH-PN     | Quench-PN is used for rapid removal of potassium permanganate & hypochlorite residues from processed garments. Potassium permanganate residue removal                                                                                                                                                                                                                                         | <ol 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> </ol>                                                                      | Blend of inorganic salt                     | Non-ionic |
| Quench CLN    | Permanganate neutralizer/ Antichlor treatment                                                                                                                                                                                                                                                                                                                                                 | Developed for rapid removal of potassium permanganate residues from processed garments. Avoids yellowing caused due to traces of hypochlorite left on the indigo dyed garments or fabrics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Blend of inorganic salt                     | Nonionic  |
| Dylev PES ECO | It is a unique multi-functional product for dispersing & leveling of disperse dyes on substrates like polyester fibers, yarns and fabrics                                                                                                                                                                                                                                                     | <ol style="list-style-type: none"> <li>1. In the heating phase Dylev-PES-ECO liquid prevents too rapid exhaustion of the disperse dyes onto the polyester fibres.</li> <li>2. ☒ Promotes the fine distribution of disperse dyes so that even less suitable dyes for dyeing wound packages can be applied</li> <li>3. The heating rate can be increased to 2-3°C/min according the machines</li> <li>4. The dyeing is therefore level already during heating and does not require a migration phase for levelling on reaching 125-135°C. The dyeing time and the final temperature can therefore be shortened to that required for complete exhaustion of the disperse dyes. Dyeing in pale shades can be finished after 15 min and navy or black shades after 30 min at 130°C.</li> </ol> | Linear polycondensate                       | Anionic   |
| AQUASORB-TM   | Aquasorb-TM is a fabric conditioner imparts durable soil release & anti-soil re-disposition properties to 100% polyester, nylon & its blends under a variety of application conditions. It may be applied before, during or after dyeing. It may be used with disperse & cationic dyes or combination thereof.                                                                                | <ol style="list-style-type: none"> <li>1. It enhances the wear ability &amp; ease of care of career apparel &amp; active sportswear.</li> <li>2. Discomfort of fabric clinging to skin &amp; the dust attracting properties of fabric are overcome.</li> <li>3. Easy laundering is obtained due to excellent soil release &amp; desoiling properties.</li> <li>4. Remarkably improved moisture transport (water absorption &amp; wicking) is obtained with fabric treated with Aquasorb-TM.</li> </ol>                                                                                                                                                                                                                                                                                    | Polymeric hydrophile                        | Non-ionic |
| QUEST-CSR     | Quest-CSR produces durable hydrophilic soil release properties in naturally hydrophobic fiber such as polyester knits, weaves, yarns and nonwovens. Quest-CSR is suitable for use in sportswear and general garments requiring good perspiration absorbency, in easily-soiled work clothes and table cloths, flame-resistant curtains, and dish cloths and towels requiring water absorbency. | <ol style="list-style-type: none"> <li>1. It imparts wash-fast water/perspiration absorbency to normally hydrophobic polyester.</li> <li>2. It imparts durable SR properties (SRM and SRD) to polyester.</li> <li>3. Quest-CSR finishes polyester with a soft hand.</li> <li>4. It can be used simultaneously in the disperse dyeing of polyester.</li> <li>5. With Quest-CSR, causing hindrance to flame-resistant properties is unlikely</li> </ol>                                                                                                                                                                                                                                                                                                                                     | Special polyester polymer resin             | Anionic   |
| QUEST-PES     | properties to 100% polyester, nylon & its blends under a variety of application conditions. It may be applied before, during or after dyeing. It may be used with disperse & cationic dyes or combination thereof.                                                                                                                                                                            | <ol style="list-style-type: none"> <li>1. Increased wearer comfort: By creating a special hydrophilic surface on the polyester fabric.</li> <li>2. Antistatic effect: It minimizes the build-up of irritating static charges in the fabric and therefore eliminates the undesirable "clinging" problem often encountered in polyester garments. This antistatic protection also reduces the pick-up of air-borne dust and therefore reduces the cleaning effort. Garments come clean with the mildest wash and do not need expensive detergents</li> </ol>                                                                                                                                                                                                                                | Polymeric Hydrophile                        | Non-ionic |

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| QUEST-AQ       | Quest-AQ is a fabric conditioner imparts durable soil release & anti-soil re-disposition properties to 100% polyester, nylon & its blends under a variety of application conditions.                                                                                                                                                                  | <ol style="list-style-type: none"> <li>1. Increased wearer comfort: By creating a special hydrophilic surface on the polyester fabric, Quest-AQ enables to garment to absorb moisture from the body and allow it to evaporate. In other words Quest-AQ gives polyester the ability to "breathe" and impart a cool, absorbent feeling.</li> <li>2. Antistatic effect: It minimizes the build-up of irritating static charges in the fabric and therefore eliminates the undesirable "clinging" problem often encountered in polyester garments. This antistatic protection also reduces the pick-up of air-borne dust and therefore reduces the cleaning effort. Garments come clean with the mildest wash and do not need expensive detergents.</li> <li>3. Lower soil re-deposition: The special soil release action of Quest-AQ ensures that white fabrics stay white and colored fabrics stay bright. The "graying" or "dulling" of fabrics which occurs during domestic washing is markedly reduced.</li> <li>4. Enhanced stain removal: It makes it easy to wash off oily or greasy stains and keeps the fabric fresh and clean.</li> </ol> | Polymeric Hydrophile                       | Non-ionic                   |
| ALQUAT-SOL     | Weight reducing accelerator agent for polyester in alkaline bath                                                                                                                                                                                                                                                                                      | <ol style="list-style-type: none"> <li>1. It is an excellent weight reducing accelerator in caustic alkaline baths applicable by dipping process &amp; pad-steam process. Its addition at low levels of 0.2 - 0.5% in caustic baths commonly boosts the rate of hydrolysis by over 400% even with 50% reduction of caustic soda concentration.</li> <li>2. It is biodegradable &amp; environmentally friendly.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ammonium salt blend                        | Cationic                    |
| Alquat-8682    | Concentrated weight reducing agent for hydrolysis of polyester fabrics.                                                                                                                                                                                                                                                                               | It accelerates hydrolysis of polyester in alkaline baths. It causes a rapid loss in fabric weight and a uniform decreases in fabric diameter without any detrimental effect on fabric strength. Minimal or no effluence on tonal or shade change.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ammonium salt blend                        | Cationic                    |
| ALTRAPLEX-LP   | Lycra protector                                                                                                                                                                                                                                                                                                                                       | <ol style="list-style-type: none"> <li>1. Altraplex-LP can be used to prevent the shrinkage or breakage of the stretch Lycra yarn in stretch denim or PFD garments.</li> <li>2. It has excellent heat resistance, and does not cause yellowing.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pyrogenic silica sol                       | Weakly cationic / non-ionic |
| 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                   |
| 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 |
| 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 |
| Modfinish-NF   | Speciality cationic high density polyethylene softener to improve tear strength of all type of fabrics.                                                                                                                                                                                                                                               | <p>It also improves the abrasion resistance &amp; strength of resin finished goods.</p> <p>Eases needle penetration considerably when needling non-wovens and felts.</p> <p>It is a low-foaming, therefore suitable for application in jets</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Polyethylene dispersion                    | Cationic                    |
| PROFINISH-SVN  | Profinish-SVN is fine polyethylene dispersion (Hard polyethylene wax). It improves the sewing performance of the treated knitted fabrics. It has a soft and smooth hand at the same time, without sublimation and thermal migration, without affecting the whiteness, and can greatly improve the fluffing effect. It is suitable for padding process | <ol style="list-style-type: none"> <li>1. Improve sewing performance: It improves the slip between yarns, thereby improving the sewing performance of knitted and other structured textiles. The fibers or yarns of the treated fabric can slide off the sewing needle very easily, reducing the friction between fibers/metals. This allows the fabric to be easily threaded through the sewing needle without excessive heat generation. As a result, problems such as holes, needle damage, and needle thread breakage on high-speed sewing machines can be largely avoided.</li> <li>2. Feel: It imparts a smooth, smooth, soft hand to the fabric. This kind of performance is not only very popular with garment sewers, but also very popular by consumers. It can also be used in the same bath with other softeners and silicone elastomers to obtain a different feel.</li> <li>3. Effects on white goods: It does not affect the whiteness of brightened fabrics.</li> </ol>                                                                                                                                                          | Polyethylene dispersion                    | Non-ionic                   |

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| GLOGARD-CP-NEW   | Glogard-CP-NEW is based on an organo phosphorous compound, durable flame retardant for 100% cellulosic, silk, and viscose & its blended goods.                                                                                                                                                                                                                                          | <ol style="list-style-type: none"> <li>1. It is an excellent flame retardant for natural &amp; regenerated cellulosic goods (except Jute), which imparts a finish durable to multiple washing &amp; dry-cleaning cycles.</li> <li>2. It is non-corrosive with high phosphorus content &amp; mainly used in protective work wear, all general outdoor wear, special wear, interior goods, home textiles etc.</li> <li>3. Mainly by padding application</li> <li>4. Fabric treated with it is resistance to laundering &amp; dry-cleaning.</li> <li>5. Good retention of handle &amp; drape after processing.</li> <li>6. Is non-blooming (without white residue on the surface of the fabric).</li> </ol>            | Organo phosphorus compound, fiber-reactive                 | Nonionic  |
| GLOGARD-CSND     | Glogard-CSND is a non-durable flame retardant for Polyester, polypropylene, synthetic fibers & their blends. It can be applied by padding, spraying or impregnating                                                                                                                                                                                                                     | <ol style="list-style-type: none"> <li>1. It imparts excellent flame retardant properties durable to dry cleaning to polyester, nylon, synthetics fabric &amp; their blends</li> <li>2. The treated fabric exhibits a soft handle and a dry non-hygroscopic finish.</li> <li>3. It is a non-hazardous.</li> <li>4. It is readily biodegradable and has no adverse effect on the environment.</li> </ol>                                                                                                                                                                                                                                                                                                             | Blend of inorganic and organic salts                       | Nonionic  |
| 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                                                                                                                                                                             | <ol style="list-style-type: none"> <li>1. It is durable to dry cleaning &amp; not to washing(non durable).</li> <li>2. It is suitable for woven, knitted and non-woven fabric substrates.</li> <li>3. It imparts a soft handle.</li> <li>4. It is Halogen free</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                           | Blend of inorganic and organic salts                       | Nonionic  |
| Glogard-PP       | Non durable flame retardant for polypropylene fabrics                                                                                                                                                                                                                                                                                                                                   | It is durable to dry cleaning & not to washing. It imparts a soft handle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Blend of inorganic and organic salts                       | Nonionic  |
| GLOGARD-STU-CONC | Glogard-STU-Conc is an organo phosphorous compound for wash permanent, flame retardant finishing of textiles made from Polyester fibers, polyamide & blends                                                                                                                                                                                                                             | <ol style="list-style-type: none"> <li>1. Flame retardant for polyester, polyamide and its blend and PU coating.</li> <li>2. High resistance to laundering and dry cleaning.</li> <li>3. Low volatility and good compatibility to major polymer.</li> <li>4. Good retention of handle and drape after processing.</li> <li>5. Non-toxic and high safety.</li> <li>6. Readily combined with other additives such as water &amp; oil repellent finish etc.</li> <li>7. Meets low fogging requirement for automotive goods.</li> <li>8. It should be pre-diluted with water.</li> <li>9. Can be used either alone or in combination with acrylic / polyurethane binders.</li> </ol>                                    | Organo phosphorus compound                                 | Nonionic  |
| GLOGARD-A-BC     | Glogard-A-BC is durable, halogen free flame proofing agent for polyester fabrics, applicable by back coating methods on automotive textiles, upholstery fabrics and technical textiles                                                                                                                                                                                                  | <ol style="list-style-type: none"> <li>1. It has a high flame retardancy and water resistance.</li> <li>2. It is halogen &amp; formaldehyde free.</li> <li>3. It is non-corrosive, no objectionable odor or fumes in the plant, on the goods or during washing.</li> <li>4. The finish is non-fogging and treated fabrics do not generate any fumes in storage.</li> <li>5. It imparts a durable, non-hygroscopic, non-corrosive, non-plasticizing &amp; thermally stable flame retardant properties on synthetics and blended technical textiles, compliant with global FR standards like MVSS 302.</li> <li>6. This finish is stable to the outdoor exposure i.e. UV radiation, heat &amp; humid aging</li> </ol> | Acrylic binders & ammonium salt additives                  | Anionic   |
| GLOGARD-PAD      | Glogard-PAD is a water-soluble flame retardant for polypropylene, cellulosic, synthetics & its blend fibers. It is durable to dry cleaning & not to washing. It imparts a soft handle                                                                                                                                                                                                   | <ol style="list-style-type: none"> <li>1. It is durable to dry cleaning &amp; not to washing(non durable).</li> <li>2. It is suitable for woven, knitted and non-woven fabric substrates. Polyester, polypropylene, synthetic fibers &amp; their blends. It can be applied by padding, spraying or impregnating</li> <li>3. It imparts a soft handle.</li> </ol>                                                                                                                                                                                                                                                                                                                                                    | Blend of inorganic and organic salts                       | Nonionic  |
| GLOGARD-HFR      | Glogard-HFR is a non-durable flame retardant for mattress ticking fabrics & other substrates. The product is an organic-inorganic complex, nitrogen & phosphorous based. It is a flame retardant product specific for natural fibers and their blends, synthetic fabrics, non-woven fabric for automotive textiles and knits. The flame retardant effects are not durable to laundering | <ol style="list-style-type: none"> <li>1. General fastness and handle are slightly influenced.</li> <li>2. Suitable for all types of fabric substrates. It can be applied by padding, spraying or impregnating</li> <li>3. Halogen free, thus Ecofriendly &amp; environmentally safe</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                     | Based on organic-inorganic complex, nitrogen & phosphorous | Non-ionic |
| GLOGARD-APM      | Glogard-APM is a functional ammonium phosphate powder flame retardant based on phosphorus/nitrogen synergism. It is formaldehyde free and halogen free flame retardant                                                                                                                                                                                                                  | <ol style="list-style-type: none"> <li>1. Reduced solubility and viscosity in water.</li> <li>2. Improved dispersibility and compatibility with polymers and resins.</li> <li>3. Increased fluidity of powder.</li> <li>4. Improved thermal expansion efficiency during inflaming retarding process and insulation performance.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                          | Functional ammonium phosphate                              | Nonionic  |
| Glogard-APP-WS   | Glogard-APP-WS is water soluble flame retardant based on Ammonium Polyphosphate with short chain & low polymerization degree.                                                                                                                                                                                                                                                           | <ol style="list-style-type: none"> <li>1. Powder or solid form, stable property, convenient for transportation, storage and use.</li> <li>2. pH value is neutral &amp; hence safe and stable during production use.</li> <li>3. High P-N content with appropriate proportion, excellent synergistic effect.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                              | Ammonium polyphosphate                                     | Nonionic  |

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| GLOGARD-MCA     | Glogard-MCA is a halogen free flame retardant based on melamine cyanurate.                                                                                                                                                                                                                                                                                    | 1. Insoluble (Water, solvent). High thermal stability.<br>2. It is a halogen-free flame retardant. Being halogen free also results in significant advantages in terms of fire safety, i.e. lower smoke density, lower smoke toxicity and less corrosion.<br>3. With sublimation temperature the highest 440°C, it has a high thermal resistance and a good thermal stability in the processing.<br>4. Addition levels of Glogard-MCA are relatively low, giving good economics and mechanical properties compared to compounds containing halogen/antimony flame retardant systems.<br>5. Lower corrosion offers advantages in the processing stage or fire hazard | Melamine cyanurate                          | Nonionic        |
| Glogard-MPP     | Glogard-MPP is a halogen free flame retardant with very high thermal stability. It is based on melamine polyphosphate                                                                                                                                                                                                                                         | 1. Powder or solid form, stable property, convenient for transportation, storage and use.<br>2. High P-N content with appropriate proportion, excellent synergistic effect.<br>3. Glogard-MPP decomposition temperature is $\geq 360^{\circ}\text{C}$ .                                                                                                                                                                                                                                                                                                                                                                                                            | Melamine polyphosphate                      | Nonionic        |
| 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.<br>2. Dilutable with cold water.<br>3. Effects resistant to soaking according to BS-5651.<br>4. Effects resistant to dry cleaning in water-free systems.<br>5. High drying temperatures up to 170°C possible.<br>6. May cause corrosion of metal parts.<br>7. Does not tend to blooming on the fabric.<br>8. Dry handle without impairing the soft handle.<br>10. After pre-trials basically compatible with softeners, fluorocarbon resins, water repellents, synthetic resins based on methylol                                                                                                                                  | Based on ammonium polyphosphate             | Weakly anionic  |
| Gloguard THPS U | Gloguard-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        |
| 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. | 1. It gives colour deepening in dark shades up to 25 - 30 % by pad, dry-cure process.<br>2. Excellent elastic resilience & soft and smooth handle.<br>3. Applicable by pad process only & in garment machines with low turbulence                                                                                                                                                                                                                                                                                                                                                                                                                                  | Emulsion of modified amino siloxane         | Non-ionic       |
| 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.    | 1. It gives colour deepening in dark shades up to 25 - 30%.<br>2. Excellent elastic resilience & soft and smooth handle.<br>3. Applicable by pad & exhaust process.<br>4. Amplify Black treated fabric gives least amount of thermo migration in polyester fabrics<br>5. Excellent colour deepening agent for denim & sulphur dyed garments                                                                                                                                                                                                                                                                                                                        | Modified amino siloxane                     | Non-ionic       |
| AMPLIFY-EBA     | Amplify-EBA is an economical 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.                                                                                                                                                         | 1. It gives color deepening in dark shades up to 15-30% by pad, dry-cure process.<br>2. Excellent elastic resilience & soft and smooth handle.<br>3. Applicable by pad process only. For exhaust only to use in garment machine like drum washer.                                                                                                                                                                                                                                                                                                                                                                                                                  | Based on silicone                           | Non-ionic       |
| AMPLIFY-DMP     | Amplify-DMP is a silicone softener designed to be used along with acrylic based blooming agent. It maintains the brighter tone of the acrylic based blooming agent.                                                                                                                                                                                           | 1. It is a color deepening agent designed to increase the depth of primarily polyester & cotton and their blended fabrics, dyed in black, navy blue or dark shades by post treatment of fabric.<br>2. It maintains the brighter tone of the acrylic based blooming agent.                                                                                                                                                                                                                                                                                                                                                                                          | Emulsion of modified amino siloxane         | Non-ionic       |
| AMPLIFY-CBRT    | Amplify-CBRT is a 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 color deepening with Redder Tone effects is observed.                                                                                                 | 1. Provides maximum color-depth of disperse black & sulphur black.<br>2. Produces astounding JET black shade depth in redder tone.<br>3. High durability to multiple cycles of washing and dry-cleaning.<br>4. Free from slip trouble, nail Mark, hand marks, spot problem.<br>5. Does not affect the fastness properties of dyeing.<br>6. Very good mechanical / chemical / thermal stability.<br>7. Handle: Neutral, somewhat bulky, non-slippery.<br>8. No problems of ending and tailing.<br>9. Redder tone.                                                                                                                                                   | Special type hybrid acrylic resin           | Weakly cation   |
| AMPLIFY-ONE     | Amplify-ONE is a color deepening agent with bluish tone 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                                                                                                                                                  | 1. Provides maximum color-depth of disperse black & sulphur black.<br>2. Produces astounding JET black, in bluish shade.<br>3. Excellent durability stable to multiple washing and dry-cleaning cycles.<br>4. Free from slip trouble, hand marks, spot problem.<br>5. Does not affect the fastness properties of dyeing.<br>6. Very good mechanical / chemical / thermal stability.<br>7. Handle: Neutral, somewhat bulky, non-slippery.<br>8. No occurrence of chalk marks.<br>9. No problems of ending and tailing.                                                                                                                                              | Special type hybrid acrylic resin           | Weakly cationic |

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| AMPLIFY-AQ         | Amplify-AQ is a color deepening agent designed to increase the depth of primarily polyester and their blended fabrics, dyed in all shades by post treatment of fabric for bright deep look.                                                                                                                                                                                                                                                                                                                                        | 1. Provides maximum color-depth of disperse black & sulphur black.<br>2. It gives bright look on fabric.<br>3. Excellent durability stable to multiple washing and dry-cleaning cycles.<br>4. Free from slip trouble, hand marks, spot problem.<br>5. Does not affect the fastness properties of dyeing.<br>6. Very good mechanical / chemical / thermal stability.<br>7. No occurrence of chalk marks.<br>8. No problems of ending and tailing.                                                                          | Special type hybrid acrylic resin                               | Weakly cationic           |
| Aquaperel-XC-830   | It is an aqueous fluorochemical emulsion which imparts durable water, oil stain repellent properties to natural fibres/fabrics i.e. cotton, rayon, wool & silk, synthetic fibres/fabric i.e. polyester, nylon, acrylic & their blends.                                                                                                                                                                                                                                                                                             | Non yellowing<br>Soft handle<br>C8 Chemistry                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C8 Fluoro carbon                                                | Weakly cationic           |
| 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.<br>2 Optimizing the oil and water repellent effects on delicate articles.<br>3 The fabric protection is retained on a high level.                                                                                                                                                                                                                                                                                                 | Dispersion of an oxime blocked polyisocyanate                   | Cationic / Non-ionic      |
| 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                 |
| 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.<br>2. Pleasant touch: softness and bulky hand-feel ensures the fabric stays pleasant to the touch.<br>3. No impact on breathability of the fabric.<br>4. Sustainability: fluorine-free. Ecofriendly.<br>5. Free from PFCs (Perfluorinated) & banned substances.                   | Polymers of high branched dendrimers in a matrix of hydrocarbon | Cationic                  |
| ALLENFINISH-PU     | New generation textile finishing agent based on self-dispersible non reactive ether modified polyurethane.                                                                                                                                                                                                                                                                                                                                                                                                                         | 1. Most suitable for synthetic fabrics and their blends with natural fabrics.<br>2. Exhibits good compatibility with amino silicone emulsion and other non-ionic and cationic finishing agents<br>3. Imparts soft and smooth hand to polyester, nylon, rayon and polyester/cotton and polyester/viscose fabrics.<br>4. Imparts excellent resilience to fabrics.                                                                                                                                                           | Ether modified polyurethane                                     | Non-ionic                 |
| Permafin Nano PU   | Permafin-NANO-PU is Nano-dispersion self-crosslinking polyether polyurethane for high-grade finishing applications                                                                                                                                                                                                                                                                                                                                                                                                                 | 1. Nano-emulsion for optimal distribution over and penetration into the fabric.<br>2. Forms a film around and between fibers.<br>3. Yields unique properties and application possibilities.<br>4. Special finishing.<br>5. Can be used to obtain special handle modifications.<br>6. Anti-pilling treatments.<br>7. Upgrade of resin finish treatments.<br>8. Increased durability of selected softeners and resin finishes.<br>9. Durable hydrophilic finishes on all fibers.<br>10. Improved wet and dry rub fastness   | Aqueous preparation of a modified polyether polyurethane        | Non-ionic                 |
| 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.                                                                                                                                                                                       | 1. It is not affected by sunlight or hydrolysis & when cured at temperatures of 130°C-170°C.<br>2. It gives excellent wash fastness & stability, improved tear strength & excellent crease recovery resulting in a lively bouncy handle.<br>3. It is compatible with most chemicals & is extremely suitable for Air Permeability reduction.<br>4. It is an elastomer treatment and since there is no formaldehyde in the system, there is no health hazard                                                                | Ether modified polyurethane                                     | Weakly cationic           |
| 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.<br>2. Handle modifying agent given full, soft handle.<br>3. Additive for post-cure resin finishing.<br>4. For use in felt-free finishes.<br>5. Improves abrasion resistance and rub fastness.<br>6. Reduces pilling.<br>7. Fiber-bonding agent.<br>8. Very good absorbency & can be used for moisture management & cool finish.                                                                                                                                         | Aqueous preparation of a modified polyether polyurethane        | Weakly cationic           |
| PERMAFIN-ZF        | Permafin-ZF is a non-formaldehyde urethane finish based on non-yellowing thermo reactive urethane prepolymer with built-in catalyst. It is designed to impart a naturally soft hand, high impact resilience, down proof finish coupled with durable hydrophilicity. It is self-crosslinking, forming extensive 3 dimensional elastomeric films of reticular construction on all fabric substrates. This results in improved C.R. angles & D.P. appearance ratings on woven & excellent stretch/recovery & shape retention on knit. | 1. A naturally soft (wet-touch-type) & full hand especially in combination with organo functional silicone emulsions.<br>2. Elastomeric finish with high impact resilience resulting in improved fabric elasticity, stretch / recovery & shape retention in knits.<br>3. Improved springy & bouncy handle with enhanced wet & dry crush resistance resulting in improved D.P. appearance ratings.<br>4. Compacts non-resinated knit. Improves pile retention for corduroy fabrics.<br>5 Improves sanforizing performance. | Urethane pre-polymer                                            | Weakly cationic/non-ionic |

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| STABILITE-SLP-NEW  | Stabilite-SLP-NEW is a highly efficient UV absorber to process polyester textile goods selected for the automotive industry                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Improves the hot lightfastness of polyester dyeing's with disperse dyes for the automotive industry which already have good lightfastness.</li> <li>Reduces fiber damage due to photochemical degradation.</li> </ul> <ol style="list-style-type: none"> <li>It has a very good dispersion stability and is therefore particularly suitable for exhaust dyeing.</li> <li>It has little self-color and therefore has virtually no influence on the shade of dyeing's.</li> <li>Improves the light fastness of disperse dyes in general.</li> <li>Improves the light fastness of dispersed dyes submitted to the test of the automotive industry</li> </ol> | Benzotriazol derivative          | Anionic                     |
| STABILITE-F        | Stabilite-F is designed for light fastness and UPF (Ultra Violet Protection Factor) improving agent for polyester, cationic dyeable polyester and polyester blended fabrics, especially like home textile and automotive interior materials and sports wears which require high lightfastness or special care under strong sunlight exposure                                                                                    | <ol style="list-style-type: none"> <li>Excellent Improvement for Light Fastness: <ul style="list-style-type: none"> <li>High temperature duration with less discoloration.</li> </ul> </li> <li>Less Fiber Strength Loss after Photo-Decomposition: <ul style="list-style-type: none"> <li>Improve fiber strength stability and durability.</li> </ul> </li> <li>High Exhaustion Capability: <ul style="list-style-type: none"> <li>Full exhaustion after high temperature dyeing.</li> </ul> </li> <li>Low Foaming Performance: <ul style="list-style-type: none"> <li>Suitable for Jet or yarn dyeing.</li> </ul> </li> </ol>                                                                  | Benzotriazone derivative         | Anionic                     |
| 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.                                                                                                                                                                                                                                                                    | <ol style="list-style-type: none"> <li>Treated fabric exhibits excellent ultraviolet absorbing properties durable to washing resulting in improved UPF/SPF ratings on cellulosic fabrics</li> <li>It has little self-color and therefore has virtually no influence on the shade of dyeing's.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                         | Benzotriazol derivative          | Non-ionic                   |
| ALLEN ANTIDUST ADP | Specialty product designed to impart anti-pollen & anti-dry dust repellent properties to the treated fabrics.                                                                                                                                                                                                                                                                                                                   | <ol style="list-style-type: none"> <li>It has the excellent anti-pollen &amp; anti-dry dust effects with good durability under repeated washing.</li> <li>Applicable on apparel fabrics, upholstery, carpets and other household textiles.</li> <li>Does not cause coarsening of handle or any hindrance to water absorbency in treated fabric.</li> <li>It minimizes pollen &amp; dry dust from adhering to the fabrics &amp; allows easy removal of dust &amp; pollen from the fabric. Imparted properties are durable to multiple wash &amp; dry-clean cycles.</li> </ol>                                                                                                                     | Modified ceramic Nano-dispersion | Non-ionic / weakly cationic |
| AQUACOAT-AFA       | A water soluble polyester co-polymer resin which acts as anti-fraying agent                                                                                                                                                                                                                                                                                                                                                     | <ol style="list-style-type: none"> <li>It has superior adhesive &amp; cohesive property with various kind of materials, particularly with the resin materials (polyester, vinyl chloride, and polycarbonate) &amp; the metallic materials (Aluminum, copper).</li> <li>Minimum loss in elongation.</li> <li>Superior weather resistance, since it does not contain double bond in its saturated polyester resin.</li> <li>Forms transparent film after drying.</li> </ol>                                                                                                                                                                                                                        | Polymeric Polyester Resin        | Anionic                     |
| 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>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>Superior adhesive &amp; cohesive property</li> <li>Minimum loss in elongation &amp; it has abrasion resistance properties.</li> <li>Better surface smoothness &amp; softness after sizing</li> <li>Less dropping and lesser warp breaks</li> <li>Superior weather resistance, since it does not contain double bond in its saturated polyester resin.</li> <li>Forms transparent film after drying.</li> </ol>                                         | Polymeric Polyester Resin        | Anionic                     |
| 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>It has excellent adhesion to a wide variety of substrates and outstanding ultra-violet light resistance.</li> <li>It is used in formulating laminating adhesives for bonding a wide variety of substrates.</li> <li>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>Battery separator stiffening agent, resistance to acid</li> </ol>                                                                                                                                                                     | Acrylic copolymer                | Non-ionic /weakly anionic   |
| DERNASET-VRT       | Anti-fibrillation / Anti-pilling Agent. Modifier of cellulose fiber to prevent fibrillation of cellulose fibers & regenerated cellulosic fibers (viscose, rayon, polynosic, cuprammonium rayon, etc.), refined cellulose like tencel, semisynthetic cellulose fiber such as cellulose acetate, diacetate & triacetate, linen fibers etc. without significantly impacting the softness & other physical properties of the fibers | <ol style="list-style-type: none"> <li>Dermaset-VRT prevents the fibrillation without damaging the softness of the cellulose fibers.</li> <li>Uniform dyeing &amp; no patchiness due to removal of fibrillation. Improved efficiency in deep dyeing cellulose fibers and a deep dyeing pretreatment using the same.</li> <li>Dermaset-VRT gives rich soft bulk on cellulosic &amp; regenerated cellulose like viscose, rayon fabric. Cellulosic fabric appears rich like yarn dyed fabric.</li> <li>Reduces pilling &amp; improves abrasion resistance.</li> </ol>                                                                                                                               | Chlohydrin polyether             | Non-ionic                   |