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1				DYEING PRINTING		
2	Sr. No.	Product Name	Product Description (few lines)	Features & Benefits (4-5 pointers)	Chemical Base	Ionic Character
3	1	ALTRANOL-NR	Altranol-NR is a wetting cum deaerating agent for the pre-treatment and dyeing of cellulosic fibers and their blends.	<ul style="list-style-type: none"> Excellant deaerating properties in yarn cheeses. Stable to alkali up to 30 g/l caustic soda. Phosphate and silicone free, solvent free. Non-foaming. 	Fatty alcohol polyglycol ether	Non-ionic
4	2	Altranol-K	It is a low foaming wetting deaerating padding auxiliary in continuous dyeing and in the pad-jig process with cotton and polyester/cotton blend fabrics	<ul style="list-style-type: none"> It improves the penetration and levelness of the dyeing. It ensures the rapid deaeration of wound packages dyed in long liquors and thus promotes penetration of the material by the dye liquid. 	Salt of phosphoric acid ester	Anionic
5	3	Altranol-SWH	Low foaming wetting and deaerating agent for continuous dyeing as well as exhaust application particularly for dyeing of yarn packages	<ul style="list-style-type: none"> Due to its excellent wetting action, thorough & uniform wetting takes place in short time particularly in continuous dyeing which results into uniform shade. Provides rapid wetting over a wide temperature range Improves dye penetration Low foaming & hence colour specks due to foam eliminated 	Based on surfactants	Anionic
6	4	Allenol EHC	Anionic, non-foaming wetting agent for continuous and discontinuous dyeing of cellulosic fibers and their blends with synthetic fibers	<ul style="list-style-type: none"> Has excellent wetting properties and facilitates penetration of difficult to penetrate cotton grey goods Prevents vat skinning and smears when dyeing with vat and sulphur dyes Is non-foaming under all pH conditions & silicone-free compatible wetting & non foaming agent to improve penetration and uniformity 	Aliphatic ester	Anionic
7	5	Defaom FB	50% active silicone antifoam concentrate designed for a wide range of textile applications including jet dyeing. Formulating cost-effective antifoams for textile applications including beck and jet dyeing	<ul style="list-style-type: none"> Useful as active ingredient when formulating defoamers. Highly efficient antifoam at low concentration levels (25-50 ppm) Sustained foam control throughout the dye cycle Stability to a wide range of pH and temperature conditions 	Polydimethyl siloxane	Nonionic
8	6	Altranol UNI	Penetration accelerant with combined effect of wetting deaeration and foam suppression. High wetting action	<ul style="list-style-type: none"> Immediate total air removal. Promotes fiber and surface levelness in. pretreatment and dyeing. Permanent foam prevention. 	Mixture of surfactants	Nonionic
9	7	ANTIFOAM-JET	Antifoam-JET is a silicone antifoam of medium viscosity, highly potent antifoam emulsion that offers excellent foam control as well as excellent compatibility in a variety of surfactant concentrates and foaming systems. Compared to common silicone defoamers, it offers exceptional foam knockdown and durability, and greater compatibility in difficult surfactant systems, e.g., such as those rich in solvents and/or electrolytes.	<ul style="list-style-type: none"> High antifoam efficiency in surfactant-rich systems. Rapid foam knockdown. Excellent foam control at temperatures up to 95°C. Long-term foam inhibition. Easy dispersion in all foam systems. Easy dispersion in hard water. Long durability in acid and alkaline conditions. No oily spots or lumps when diluted with water. Compatibility with a variety of surfactant concentrates 	Polydimethyl siloxane	Non-ionic
10	8	ANTIFOAM-PHD	A high-performance antifoam emulsion available for multiple uses in the textile industry. A high-performance antifoam emulsion available for multiple uses in the textile industry,	<ul style="list-style-type: none"> Highly efficient antifoam at low concentration levels (25-50 ppm). Sustained foam control throughout the process cycle. Stable at high shear. Stability to a wide range of pH and temperature conditions. Easy dispersibility. Use of the product typically creates no oily residue or agglomerates when diluted in water. 	Polydimethyl siloxane	Nonionic
11	9	Defoam-337	It is a 100% active non-silicone liquid defoamer to be used in a variety of textile operations.	<ul style="list-style-type: none"> In dyeing processes, it effectively controls surface foam. It prevents foam generation in printing and finishing operations by eliminating air entrapment. Easy to handle liquid Superior bath stability - no silicone spots 	Mineral oil fatty acid derivative	Nonionic
12	10	Defoam-PWB / Antifoam ECO / TDA	Silicone based foam control agent for chemical pulp production & textile applications	<ul style="list-style-type: none"> High antifoam efficiency in surfactant-rich systems. Rapid foam knockdown. Foam control agent specifically developed to control foam and aid drainage in chemical pulp production. It is particularly effective in alkaline pulp mill brown stock washing, screening and bleaching processes. 	Polydimethyl siloxane	Non-ionic
13	11	Defoam-FFO	Mineral oil free reinforced foam control agent.	Penetrant, accelerant for PES, PES/CEL & Cel	Polydimethyl siloxane	Nonionic

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14	12	LUBASSIST-109	Lubassist-109 is an anionic crease preventing agent / dyebath lubricant for woven and knitted fabrics. It is non-foaming and is suitable for jet dyeing units.	1. It is used for cellulosic fibers, wool, polyamide, polyester and blends of these fibers. 2. It is used in pretreatment, dyeing and after treatment. 3. Suitable for jet application. 4. Stable at temperatures up to 135°C. 5. Good stability to alkali and electrolytes. 6. Low foaming	Fatty sulphonate preparation	Anionic
15	13	LUBASSIST-109-ECO	Lubassist-109-ECO is an anionic crease preventing agent / dyebath lubricant for woven and knitted fabrics. It is non-foaming and is suitable for jet dyeing units.	1. It is used for cellulosic fibers, wool, polyamide, polyester and blends of these fibers. 2. It is used in pretreatment, dyeing and after treatment. 3. Suitable for jet application. 4. Stable at temperatures up to 135°C. 5. Good stability to alkali and electrolytes. 6. Low foaming.	Fatty sulphonate preparation	Anionic
16	14	ALTRAPLEX-ACA/ Modlube ACA	Altraplex-ACA is a preparation and dye bath lubricant to prevent rope marks, creasing and abrasion in cellulosic fabrics and minimize tendency of color streakiness in winch/jet machines. It is also an efficient one-bath scour-dye anti-crease auxiliary for jet processing of polyester.	1. Promotes opening of the fabric rope and displacement of folds or creases in cellulosic and polyester. 2. Acts as a lubricant when the fabric rubs against itself or machine parts and eliminates yarn/fiber abrasion. 3. It has no restraining effect on dyes. 4. Is highly stable to caustic alkali and to high electrolyte concentration making it ideal for application of all dyes on cellulosic fibers & their blends. 5. It has excellent emulsifying properties for residual oils, waxes and enable a single-bath scour-dye process for 100% polyester. 6. It is low-foaming and facilitates smooth running in jet machines with higher machine loading at shorter liquor ratios.	Blend of special phosphate esters	Anionic
17	15	PROFINISH-LU	Profinish-LU is a non-ionic crease prevention agent/dyebath lubricant for woven and knitted goods made of all types of natural and synthetic fibers and their blends for use in pretreatment, dyebath and after treatment.	1. Non-foaming. 2. High resistance to alkali and electrolytes. 3. Suitable for application on jet dyeing units (cationic and anionic liquors). 4. Can be diluted with cold water, forms stable stock solutions. 5. For cellulosic fibers, wool, acrylics, polyamide, polyester and blends of these fibers. 6. For use in pretreatment, dyeing and after treatment. 7. Low foaming. Stable temperatures up to 135°C.	Fatty acid ester preparation	Non-ionic
18	16	PROFINISH-L-18	Profinish-L-18 is an anionic crease preventing agent / dyebath lubricant for woven and knitted fabrics. It is non-foaming and is suitable for jet dyeing units	It is used for cellulosic fibers, wool, polyamide, polyester and blends of these fibers. 1. It is used in pretreatment, dyeing and after treatment. 2. Suitable for jet application. 3. Stable at temperatures up to 135°C. 4. Good stability to alkali and electrolytes. 5. Low foaming.	Fatty sulphonate preparation	Anionic
19	17	PROFINISH-NPF	Profinish-NPF is a wet waxing and softening agent for the finishing of yarns made of synthetic fibers, wool and their blends.	1. For the finishing of yarns made of synthetic fibers, wool and blends of these; also suitable for cellulosic fibers. 2. Low concentrations give extremely smooth yarns. 3. High yield from long liquors. 4. Good abrasion resistance. 5. Antistatic properties.	Paraffin wax/fatty acid amide	Weakly cationic
20	18	ALTRAPLEX-AC	Cracking agent is a multi-functional agent to optimize the pretreatment washing processes after alkaline pretreatment processes.	1. Removes residual alkali and core neutralization of the textile goods to enhance the quality and reproducibility of subsequent processing steps. 2. Can be added at the end of the washing range without danger of corrosion in machines such as stenters.	Special organic acids	Anionic
21	19	Altraplex-AC / MSD	Extracting agent with additional dispersing effect in desizing and scouring of textiles in exhaust process.	Extraction agent and dispersant with stabilizing and anticatalytic effect in the alkaline peroxide bleach. Improves degree of whiteness. Prevent pin holes or catalytic damage of fabric.	Blend of special phosphate esters	Anionic

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22	20	ALTRAPLEX-PH	Prior treatment with Altraplex-PH prevents damages occurring during sodium hypochlorite bleach (problem: AOX values) prior to the peroxide bleach through an environment friendly and non toxic protonic treatment.	1. It prohibits catalytical damage to cellulosic fibers or destabilization of peroxide bleaching liquors by conizing metallic particles. 2. Replaces organic acids (formic acid or acetic acid) for neutralization of core alkali post scouring /peroxide bleaching. 3. Not completely volatile during drying, thus preventing core – alkali migration. 4. Demineralizes cotton, remove difficult to eliminate pigments. 5. Exhibit pH specific function. In alkaline region Altraplex-PH liquor function as a buffer or sequestering or peroxide stabilizing agent.	Based on organic acids	Anionic
23	21					
24	22	DYTEC-DF	Dytec-DF is an acid buffer and dispersant for dyeing of polyester and polyester/cellulosic blends.	1. Maintains a constant pH during the dyeing process. 2. It often replaces the dispersant. 3. It has sequestering action on heavy metals. 4. Does not foam. 5. It is easy to handle in the liquid commercial form. 6. It is phosphate free	Based on phosphate free organic compounds	Anionic
25	23	PRODUCT-2115	Product-2115 is a high performance, low-foam auxiliary with excellent dispersing; buffering and sequestering action during the dyeing of disperse dyes on 100% polyester and on polyester blended fabric, yarn and loose-stock.	1. Maintains a constant acidic pH throughout the polyester dyeing circle. 2. Prevents interference at the dyeing stage of calcium, magnesium and heavy metal ions to eliminate formation of unwanted stains or deposits. 3. Widens choice of dyes to include disperse colours which are generally sensitive to alkali or reduction. 4. Improves shade consistency and level-dyed results even when feed-water hardness or alkalinity may color.	Blend of organic acid salts and surfactants	Anionic
26	24	DYTEC-VSB	Dytec-VSB is a unique high temperature stable acid buffer and core alkali neutralizer.	1. Powerful acid buffer. Stable over wide temperature range (30 - 200°C). 2. Ensures and maintains consistent pH and is highly robust and retains its efficiency even at elevated temperatures encountered during the dyeing/print fixation of disperse dyes on polyester. 3. Is viscose safe buffer i.e. it does not damage or burn viscose component of the fabric under normal conditions of dyeing and printing processes. 4. It enables use of even those disperse dyes which are sensitive to alkali or reduction. 5. It improves shade consistency and does not affect brightness of the shade	Blend of organic acids and their salts	Weakly Anionic
27	25	Dytec RLG / Dytec AO	Dytec-RLG is an auxiliary to improve the stability, leveling of reactive & direct dye solutions when dyeing cellulosic fibers	1. It controls the liquor exhaustion rate and lowers the rate of fixation during reactive dyeing. Ensures uniform fixation of the dyestuff due to pH regulating effect during the alkali addition. 2. These properties promote level dyeings particularly of cellulose based synthetic fibres such as viscose, lyocell, modal and micro modal. 3. The product has a sequestering effect regarding hardness elements which may be contained in the process water, in the goods and in the electrolyte additives. 4. It has a positive influence on the bicarbonate problem the dyer is faced with in reactive dyeing. 5. The reproducibility of the dyeings is improved. 6. Excellent dispersing power even in case of extreme liquor turbulences.	Polyaminocarboxylic acid & modified condensation product	Anionic

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26	26	DYTEC-MCH	Dytec-MCH is an acid donor for dyeing of polyamide and wool with acid dyestuffs.	1. Dytec-MCH is an acid donor designed for dyeing of polyamide and wool with acid dyestuffs. 2. Even lowering of pH value during the heating-up period in contrast to conventional buffer systems which maintain a constant pH value. 3. Lowers final pH value up to 4.0. 4. Even absorption of the acid dyestuffs by the fiber over the entire dyeing process. Optimal controlled dyebath exhaustion. 5. Insensitive to electrolytes. Foam-free. 6. Increased process safety (local acid overdoses avoided). 7. Minimal danger of cauterization in contrast to acids.	Methanoic acid ester of glycol	Non-ionic
28						
29	27	DYTEC-NYL	Dytec-NYL is used as an acid donor for automatic pH regulation of the dye bath when dyeing PA and WO with acid or 1:2-metal complex dyestuffs.	1. Highly concentrated. 2. Controlled release of acid with increasing temperature of the dye bath. 3. Foam-free. 4. Easily dispersible in cold or warm water.	Methanoic acid ester of glycol	Non-ionic
30	28	ALTRAPLEX-AB-45	Altraplex-AB-45 is used in dyeing of polyester fibers with dyes at all storages of processing in HT processes on jets and circulating liquor machines. Altraplex-AB-45 is recommended for pH sensitive dyes and also recommended for dyeing of polyester blends.	1. Good buffer capacity: Robust dyeing system "Right First Time" hence cost savings. 2. No problems with correct pH measurement: No pH change through electrolytes and added substance to the dyebath. 3. No impact on fastness: Compatible with all auxiliaries and UV absorbers. 4. No extra addition of acid required to adjust the pH Easy and safe handling. 5. Non-foaming: Suitable for jets	Based on organic acid and salts	Anionic
31	29	ALTRAPLEX-AB-55	Altraplex-AB-55 is used in dyeing of polyester fibers with dyes at all storages of processing in HT processes on jets and circulating liquor machines. Altraplex-AB-55 is recommended for pH sensitive dyes like s and also recommended for dyeing of polyester blends.	1. Good buffer capacity: Robust dyeing system "Right First Time" hence cost savings. 2. No problems with correct pH measurement: No pH change through electrolytes and added substance to the dyebath. 3. No impact on fastness: Compatible with all auxiliaries and UV absorbers. 4. No extra addition of acid required to adjust the pH Easy and safe handling. 5. Non-foaming: Suitable for jets.	Organic acid and salts	Anionic
32	30	DYCAR-PEW	Dycar-PEW is a low odor carrier for dyeing of polyester, polyester blends, cationic dye able PES and blends	1. Low odor in application. 2. Produces no odor on the fabric, even without high drying temperatures after dyeing. 3. Is easy in application and gives stable emulsion over the entire temperature range of the dyeing process. 4. Contains dispersants and leveling agents, it is usually used without additional leveling agents or dispersants. 5. Is also suitable in dyeing at temperatures of 120-130°C. 6. Is particularly useful when dyeing polyester / wool blends because of low cross-staining on wool with disperse dyes.	Based on aromatic imides	Anionic
33	31	DYLEV-EC	Dylev-EC is a low foaming, eco-friendly diffusion accelerant, leveler for dyeing of polyester & its blends.	1. Accelerates dye diffusion especially at temperatures above 100°C. 2. Improves dye migration. 3. Allows shorter dyeing cycles (hence lesser energy consumption and reduced occurrence of Oligomer deposits). 4. Gives better yields (hence reduced dye costs and cleaner machines). 5. Promotes coverage of material-induced barrenness.	Mixture of aromatic hydrocarbons	Non-ionic
34	32	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). 2. Shorter dyeing time at 98°C. 3. Leveling and dispersing action. 4. Beneficial when applied in the iso-electric range of wool. 5. Softening properties; maintains the quality of the wool. 6. Good wetting out. 7. Low foaming.	Complex polycarboxylates preparation	Non-ionic
35	33	Altraplex WPA/conc	A special fibre 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. 2. Only effective in acid medium 3. Textiles treated with Altraplex WPA are practically formaldehyde-free.	Based on complex polycarboxylates	Anionic

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36	34	ALTRAPLEX-CB	Altraplex-CB is padding auxiliary for continuous dyeing of piece goods produced from cotton, polyester and polyester/cotton blends.	1. It prevents the migration of pigment particles during intermediate drying of fabrics produced from cellulosic fibers and their blends with manmade fibers	Acrylic copolymer	Anionic
37	35	ALLENOL-ADKI	Levelling agent for direct, vat and sulphur dyestuffs	Allenol-ADKI helps to achieve level dyeing on cotton by equalizing the rate of dyeing and minimizing the affinity differences. It improves dyestuff penetration also.	Amphoteric alkoxylate	Nonionic
38	36	DYTEC-AO	Dytec-AO is an auxiliary to improve the stability, leveling of reactive & direct dye solutions when dyeing cellulosic fibers.	1. Improves the stability of reactive & direct dyes in solution when dyeing cellulosic and PES/CEL blends 2. Improves dye diffusion and thus levelness. 3. Dissolves and disperses impurities in the fiber. 4. Stable to substances causing hard water. 5. Low-foaming.	Aqueous preparation of aryl sulphonic acid & amino carboxylic acid	Anionic
39	37	Dytec LD VRD	Levelling Agent for Reactive & direct dyes	1. Prevents formation of dye aggregates in solution & assists dye transfer or migration during dyeing in exhaust or pad application processes. 2. Ensures uniform distribution of dye throughout the textile substrate & consequent level dyed shades.	Aqueous preparation of aryl sulphonic acid & amino carboxylic acid	Amphoteric
40	38	DYLEV-DLP	Dylev-DLP is a levelling and dispersing agent for dyeing polyester fibers with disperse dyestuffs by the HT process	1. Fluorescent whitening of polyester fibers with disperse FWAs by the HT process. 2. Dyeing the polyester component of polyester / cellulosic blends by the HT process. 3. Pronounced dispersing properties. Very good levelling effect. 4. Prevents filtration of dyestuffs. Does not increase the AOX content of waste water.	Aryl-polyglycol ether derivative	Anionic
41	39	Dylev-SF	Leveling agent for the high-temperature dyeing of polyester fibres	1. It is non-foaming & is therefore also very suitable for HT dyeing in jet dyeing machines that are only partially flooded & in other equipment with a low liquor level. 2. Has no dye-retention effect; with dark shades it even improves the colour yield of dyes that have a slow rate of diffusion	Mixture of nonionic aliphatic compound	Nonionic
42	40	DYLEV-DIF	Dylev-DIF is a levelling, dispersing and migrating agent with diffusion accelerating effect for use in dyeing polyester with disperse dyes under HT conditions. Dyeing polyester fibres and microfibers and polyester/cellulose blends at all stages of processing.	1. Good levelling and migration properties. 2. Marked diffusion-accelerating effect. 3. Very good dispersing properties. Build-up on tone. 4. No oligomer deposits. 5. Permits level dyeing's under critical dyeing conditions. 6. Improves in-out levelness in dyeing on circulating liquor machines. Suitable for levelling faulty dyeing's. 7. Improves coverage of material with varying affinity. 14. Further dispersants not required.	Carboxylic and phosphoric acid esters of aromatic compounds	Anionic
43	41	DYLEV-ERQ	Dylev-ERQ is a low-foaming leveling agent and dyeing accelerator with strong diffusion-promoting properties for HT-polyester dyeing's.	1. Support uniform color build-up. High migration properties. 2. Free of phthalic acid ester. 3. Free of APEO or APEO derivatives. 4. Self-emulsifying when pouring into water. 5. Low-foaming, also in HT-range. 6. Suitable for very short liquor ratios. 7. Excellent leveling effects. 8. Suitable for leveling faulty dyeing's. 9. Suitable for carrier and HT-dyeing's, also on beam dyeing machines.	Based on aromatic carboxylic acid compound & ethoxylates	Non-ionic
44	42	DYLEV-DA-DLP	Dylev-DA-DLP is a levelling and dispersing agent for dyeing polyester fibers with disperse dyestuffs by the HT process.	1. Fluorescent whitening of polyester fibers with disperse FWAs by the HT process. 2. Dyeing the polyester component of polyester / cellulosic blends by the HT process. 3. Pronounced dispersing properties. 4. Very good levelling effect. 5. Prevents filtration of dyestuffs. 6. Does not increase the AOX content of waste water. 7. Readily soluble in water. 8. Pumpable.	Aryl-polyglycol ether derivative	Anionic

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45	43	DYLEV-LAFS/CONC	Dylev-LAFS-Conc is a dispersing and levelling agent for disperse dyes. It is an excellent water soluble emulsifier having rapid wetting & solubilizing properties, and possessing good versatility as dispersant for pigments.	1. It shows resistance to hydrolysis and may be used in a range of acidic and alkaline formulations. 2. Helps in removing unfixed or loose dyestuffs and does not loose re-deposition of the dyestuffs. 3. Is used as dye-leveling agent for fixation of disperse dyes printing on polyester fabrics in high speed continuous dyeing. 4. Is used as an excellent dispersing agent for lime soap in detergent & used as an auxiliary for re-dyeing of uneven disperse dyeing. 5. Use of Dylev-LAFS-Conc for washing dispersed color printed goods.	Polyoxyethylene ether ester	Non-ionic
46	44	ALTRAPLEX-IW	Altraplex-IW is a highly effective dispersing agent for dyeing of synthetic fibers & blends with wool & cellulosic. Altraplex-IW is a leveling agent for dyeing wool with 1:2 metal complex dyestuffs with no free sulpho groups. It also helps as leveling agent for brightening or correcting faulty dyeing's with 1:2 metal complex dyestuffs.	1. Concentrated liquid brand. 2. Can be readily diluted with water without gel formation. 3. Very good dispersing effect. 4. Improves the dispersion and migration power of 1:2 metal complex dyestuffs. 5. Makes possible the dyeing of wool at pH 4-5.	Alkyl polyglycol ether	Non-ionic
47	45	DYLEV-FBSE	Dylev-FBSE due to its substantively for 1:2 metal complex dyes enforces a slow & even rate of absorption which is excellent penetration & level dyeing.	1. Levelling agent for 1:2 metal complex dyestuffs for polyamide & wool. 2. It is applicable in dyeing of wool, silk and polyamide fibers in weakly acid baths (pH 4 - 5) and also in ammonium sulphate (pH 6 - 6.5) process.	Nitrogenous condensation product	Amphoteric / Non-ionic
48	46	DYLEV-SMK	Dylev-SMK due to its substantively for 1:2 metal complex dyes enforces a slow & even rate of absorption which is excellent penetration & level dyeing.	1. Levelling agent for 1:2 metal complex dyestuffs for polyamide & wool. 2. It is applicable in dyeing of wool, silk and polyamide fibers in weakly acid baths (pH 4 - 5) and also in ammonium sulphate (pH 6 - 6.5) process.	Nitrogenous condensation product	Amphoteric / Non-ionic
49	47	DYLEV-FTSK	Dylev-FTSK is a levelling agent with affinity for dyes for use in the dyeing of polyamide, wool & silk	1. Dyeing polyamide, wool or silk with selected acid and 1:2 metal-complex dyes. 2. Levelling and brightening faulty dyeings. 3. Leveling of structural differences in the fiber. 4. Improves penetration of dyeing's. 5. Improves the combination behavior of acid dyes. 6. It retards the uptake of dyes by polyamide fibers with a high strike rate and thus ensures good leveling and uniform uptake of dyes throughout the dyeing process.	Complex blend of surfactants	Weakly anionic / non-ionic
50	48	DYLEV-NL-SPL	Dylev-NL-SPL is a leveling and reserving agent used in the dyeing of polyamide fibers with acid dyestuffs, 1:2 metal complex & direct dyes. Due to its affinity towards polyamide fibers reduces rate of exhaustion of acid dyestuffs & also improves migration. This results in a level dyeing	1. Promotes level dyeing's with acid, milling, metal complex & chrome dyes on wool, silk & polyamide fibers and with other fibers. 2. Promotes penetration of the dyeing & excellent migration effect even with high affinity dyestuffs 3. Reduces the tendency of streakiness. 4. Good wetting & dispersing power. 5. Particularly improves levelness of the dyeing; depth of shade & synchronous exhaustion of 1:2 metal complex dyes with sulpho groups (1:2 metal complex dye).	Mixture of non-ionic & anionic surfactants	Anionic
51	49	DYRETARD-ACR	Dyretard-ACR is developed as retarding & leveling agent for the dyeing of polyacrylonitrile fibers with cationic dyestuffs. Levelling of faulty dyeing's.	1. High levelling power of cationic dyestuffs. 2. Improves the migration of the basic dyestuffs. 3. Intensified dye take up only after reaching the dyeing temperature	Quaternary ammonium compound	Cationic
52	50	DYRETARD-PAN	Dyretard-PAN is a retarding & leveling agent for the dyeing of polyacrylonitrile fibers with cationic dyestuffs	1. High leveling power of cationic dyestuffs. 2. Improves the migration of the basic dyestuffs. 3. Intensified dye take up only after reaching the dyeing temperature	Quaternary ammonium compound	Cationic
53	51	DYRETARD-ANI	Dyretard-ANI is a retarding & leveling agent for the dyeing of polyacrylonitrile fibers with cationic dyestuffs & cationic dyeable polyester fabric	1. Suitable for all types of cationic dyestuffs. 2. High leveling power of cationic dyestuffs for polyacrylonitrile & polyester fabric 3. Improves the migration of the basic dyestuffs. 4. Intensified dye take up only after reaching the dyeing temperature.	Quaternary ammonium compound	Cationic

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52	52	DYTEC-DAN	Dytec-DAN is a high performance, non-staining dispersing agent for the producing level dye shades on polyester with disperse dyes in high temperature exhaust dyeing systems	1. Does not stain polyester and ensures optimum brightness and color clarity even in pale shades and with fluorescent optical whiteners. 2. Maintains its high dispersing efficiency throughout heating and cooling cycle and so prevents dyestuff agglomeration and surface re-deposition which is often encountered in heavy shades. 3. It has excellent in-built dispersing action on polyester oligomer and can be used as an efficient cleaning agent for oligomer deposits that may have accumulated in the dyeing equipment 4. Maintains a stable dispersion in the presence of high electrolyte concentration and is therefore suitable for use in one-bath dyeing processes for polyester cellulosic and polyester wool blends. Is low foaming and highly effective even at low concentration levels in the dyebath	Sodium poly[(naphthalene formaldehyde)sulfonate]	Anionic
54	53	DYLEV-SLM	Dylev-SLM is a levelling agent for high temperature dyeing of polyester fiber / fabric	1. Excellent migration property to the dyes used and therefore eliminates uneven dyeing. Time required in raising the temperature is reduced. 2. In dyeing texturized polyester knit & woven fabric it shows an outstanding covering property to eliminate barre' effect. 3. It does not produce any adverse effect on the light fastness nor does it adversely affect the subsequent treatment. 4. Ecofriendly, APEO / NPEO free.	Special Anionic surface active agent.	Anionic
55	54	DYLEV-MBL	Dylev-MBL is a economical levelling, dispersing and migrating agent with diffusion accelerating effect for use in dyeing polyester with disperse dyes under HT conditions. Dyeing polyester fibers and microfibers and polyester/cellulose blends at all stages of processing.	1. Excellent migration property to the dyes used and therefore eliminates uneven dyeing. Time required in raising the temperature is reduced. 2. In dyeing texturized polyester knit & woven fabric it shows an outstanding covering property to eliminate barre' effect. 3. It does not produce any adverse effect on the light fastness nor does it adversely affect the subsequent treatment. 4. Very good dispersing properties. 5. Improves dispersion stability of the dyes in the bath, prevents agglomeration. 6. Permits level dyeing's under critical dyeing conditions. 7. Improves in-out levelness in dyeing on circulating liquor machines. 8. Suitable for levelling faulty dyeing's.	Special Anionic surface active agent	Anionic
56	55	Dylev PES ECO	It is a unique multi-functional product for dispersing & leveling of disperse dyes on substrates like polyester fibers, yarns and fabrics	1. In the heating phase Dylev-PES-ECO liquid prevents too rapid exhaustion of the disperse dyes onto the polyester fibres. 2. Promotes the fine distribution of disperse dyes so that even less suitable dyes for dyeing wound packages can be applied 3. The heating rate can be increased to 2-3°C/min according the machines 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.	Linear polycondensate	Anionic
57	56	DYLEV-CPE	Dylev-CPE is a levelling, dispersing and migrating agent with diffusion accelerating effect for use in dyeing polyester with disperse dyes under HT conditions. Dyeing polyester fibres and microfibers and polyester/cellulose blends at all stages of processing.	1. Good levelling and migration properties. 2. Marked diffusion-accelerating effect. 3. Very good dispersing properties. 4. Build-up on tone. 5. Permits level dyeing's under critical dyeing conditions. 6. Improves in-out levelness in dyeing on circulating liquor machines. 7. Suitable for levelling faulty dyeing's. 8. Improves coverage of material with varying affinity. 9. Promotes more uniform exhaustion of dye combinations, thus creating ideal conditions for level dyeing.	Carboxylic and phosphoric acid esters of aromatic compounds	Anionic
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	A	B	C	D	E	F
59	57	DYLEV-ACE	Dylev-ACE is a dyeing accelerator for dyeing acrylic fibers at all processing stages.	1. Pronounced increase in the strike rate. 2. Excellent reserving of adjacent fibers. 3. Improve liquor stability. 4. It is a dyeing accelerator for dyeing acrylic fibers at all processing stages as well as accelerating dyeing, in blends with cellulosic, polyamide and wool. 5. It ensures almost complete reserving of adjacent fibers. 6. It is suitable for exhaust and pad-steam application.	Aromaticimides & specialty surfactants	Weakly anionic
60	58	DYCAR-LTC	Dycar-LTC is a low odor carrier for dyeing of polyester, polyester blends, cationic dye able PES and blends	1. Low odor in application. 2. Produces no odor on the fabric, even without high drying temperatures after dyeing. 3. Is easy in application and gives stable emulsion over the entire temperature range of the dyeing process. 4. Contains dispersants and leveling agents, it is usually used without additional leveling agents or dispersants. 5. Is also suitable in dyeing at temperatures of 120-130°C. 6. Is particularly useful when dyeing polyester / wool blends because of low cross-staining on wool with disperse dyes.	Based on aromatic imides	Anionic
61	59	DYTEC-FD	Dytec-FD is an alkali-liberating auxiliary for fixing reactive dyes on cellulosic fibers	It is used as an acid binding reagent in the textile industry to improve the absorption of disperse dyes on cellulosic and polyester fibers	Based on sodium trichloroacetate	Anionic
62	60	ALTRAPLEX-540/	Altraplex-540 is an organic sequesterant with excellent chelating action on calcium, magnesium, iron and copper for the treatment of hard water and heavy metal ions over a wide range of pH and temperature in preparation, coloration and finishing processes.	1. Possesses high hydrolytic stability and maintains its sequestering activity across a wide pH range. 2. Has good deflocculating property and dispersing action on suspended solids. 3. Improves brightness in cottons during scouring and bleaching and in washing of coloured fabrics. 4. Eliminates tendency of salt precipitation during print-paste preparations. 5. Acts as an efficient peroxide stabilizer in bleach liquor and prevents occurrence of pin-holes in cotton fabrics.	Based on organic acid salts	Anionic
63	61	ALTRAPLEX-HTS	Altraplex-HTS is an efficient sequestering agent for calcium, magnesium and heavy metal which retains its effective performance at high temperatures and also in the presence of high concentrations of electrolyte and alkali	1. Eliminates calcium and magnesium powdery precipitates or lime-soap deposits on the textile goods and prevents build-up of insoluble scale on machinery. 2. Water absorbency, softness and winding properties of yarn are improved. 3. Dyeing's are brighter, whites are whiter 4. It aids reproducibility by ensuring uniform preparation and by preventing shade change with dyes sensitive to metal impurities 5. May be used at all stages of textile processing, in scouring, bleaching, dyeing, printing or finishing. 6. Threshold effect: It exhibits a "threshold effect" to maintain clarity in super saturated solutions of CaCO ₃ , CaSO ₄ , BaSO ₄ , Fe(OH) ₃ etc., with very small concentrations of sequestering agent	Polycarboxylic acid	Anionic
64	62	ALTRAPLEX-R	Altraplex-R improves vat and sulfur dye oxidation. It oxidizes dyestuffs in an acid bath at high temperatures for more effective dye fixation, without the necessity of elaborate controls. It can replace any present vat and sulfur dye oxidation system on continuous ranges.	1. Improved Dye Value – it results in complete and efficient oxidation and may provide an increase of shade depth. 2. Quality - dyed fabric has an improved absorbency and hand when compared with fabrics that were dyed using dichromate for oxidation. 3. Versatility - can replace any present vat or sulfur dye oxidant on continuous ranges. 4. Stability - At elevated temperatures, the concentration of Altraplex-R remains constant, even in the presence of copper sulfate. 5. Environmental – is an effective replacement for heavy metal dye oxidants. It was developed to fill the need for an oxidizing chemical that would not materially affect plant effluents. 6. Safety – It is reasonably safe to use when handled with care. Its use can result in safer operating conditions when it replaces dye oxidants that are considered dangerous to handle.	Special oxidizing agent & surfactants	Nonionic

	A	B	C	D	E	F
63	63	Altraplex RS	Altraplex RS-25 is a stable inorganic mild oxidizing agent for disperse dye high temperature steaming.	1. In case of discharge printing, the padded or exhaust dyed discharge-able reactive ground is padded with Altraplex RS-25, so that the reduction fumes released from discharge agent decomposing, shall not affect unprinted ground colour 2. It is recommended for use in all print pastes which may be alkaline, containing dyes sensitive to reduction action	Special oxidizing agent & surfactants	Non ionic
65	64	ALTRAPLEX-PH	Prior treatment with Altraplex-PH prevents damages occurring during sodium hypochlorite bleach (problem: AOX values) prior to the peroxide bleach through an environment friendly and non toxic protonic treatment.	1. It prohibits catalytical damage to cellulosic fibers or destabilization of peroxide bleaching liquors by conizing metallic particles. 2. Replaces organic acids (formic acid or acetic acid) for neutralization of core alkali post scouring /peroxide bleaching. 3. Not completely volatile during drying, thus preventing core - alkali migration. 4. Demineralizes cotton, remove difficult to eliminate pigments. 5. Exhibit pH specific function. In alkaline region Altraplex-PH liquor function as a buffer or sequestering or peroxide stabilizing agent.	Based on organic acids	Anionic
66	65	ALTRAPLEX-S	Altraplex-S is an organic sequestrant with excellent chelating action on calcium, magnesium, iron and copper for the treatment or hard water and heavy metal ions over a wide range of pH and temperature in preparation, coloration and finishing processes.	1. Possesses high hydrolytic stability and maintains its sequestering activity across a wide pH range. 2. Has good deflocculating property and dispersing action on suspended solids. 3. Improves brightness in cottons during scouring and bleaching and in washing of coloured fabrics. 4. Eliminates tendency of salt precipitation during print-paste preparations. 5. Acts as an efficient peroxide stabilizer in bleach liquor and prevents occurrence of pin-holes in cotton fabrics.	Based on organic acid salts	Anionic
67	66	ALTRAPLEX-SHP	Altraplex-SHP is a dye transfer inhibitor for laundry detergents. It is a special modified polymer that prevents bleeding dyes from staining other garments. It thereby contributes significantly to the development of high-performance color detergents.	1. It offers an excellent cost/benefit ratio in detergent formulations. 2. It is the most effective dye transfer inhibitors for liquid laundry and powder detergents, compared with conventional Polyvinylpyrrolidone polymer (PVP).	Co-Polymer of 1-vinylimidazole & 1-vinyl-2-pyrrolidone, modified	Weakly cationic
68	67	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. 2. All round product for reactive and direct dyeing's, excellent improvement of contact water fastness. 3. Contact fastness of basic, sulphur, vat, direct & reactive dyeing's are distinctly improved & so suitable for polyacrylics, cellulose & regenerated cellulosic fabrics. 4. None or only minimum influence on shade change and light fastness. No influence on handle and absorbency.	Polyetheramine in aqueous solution	Cationic
69	68	Dyefix-NCF	Chlorine fastness improver for polyamide	Fixing agent for improving the fastness to chlorine of nylon fabric. Excellent after fixing agent for improving fastness to chlorine and wet contact staining	Methylene linked condensation product	Anionic
70	69	DYEFIX-FRD	is a next-generation fixing agent that delivers the strongest possible wet-fastness for all reactive dyes on cotton	1. Gives acceptable effects to improvement of not only color fastness to dry rubbing but also color fastness to wet rubbing to which the usual agents have been considered to be difficult to give effects. 2. It also improves wet fastness of cellulosic fabrics. 3. Imparts excellent wash fastness to direct & fiber dyed fabrics to water, perspiration wet ironing, sea -water & laundering. 4. It is a zero formaldehyde product & hence treated fabric is free from formaldehyde odor. Further the fabrics satisfies international regulations concerning formaldehyde emission 5. It is highly resistant to presence of salts such as common salt & Glauber salt. 6. It is effective at room temperature. For optimum results the dyed fabric should be treated at 40 -50°C for 20 mins.	Polydadmec	Cationic
71	70	ALQUAT-RD	Alquat-RD is a non-formaldehyde based dye fixing agent for cellulosic fabrics. It improves the wet fastness and wash fastness properties of direct and reactive dyeing on cellulosic fibers. To improve the wet fastness and wash fastness properties of direct and discharge prints with direct and reactive dyestuffs. It also improves fastness to perspiration fastness.	1. Little change of shade. 2. Little effect on light fastness. 3. No significant effect on handle. 4. Good compatibility with softening and finishing liquors. 5. Formaldehyde free. 6. Very good resistance to salts causing hardness of water.	Polyquaternary ammonium compound	Cationic
72						

	A	B	C	D	E	F
71	71	Dyefix-CPW	Dyefix-CPW is an eco-friendly cationic dyefixing agent for reactive, vat, sulphur & direct dyes which does not contain formaldehyde in its formulation.	It is recommended for highest wet fastness levels of turquoise and blue shades (Remazol Br Blue R special)	Polycation	Cationic
72	72	Dyefix-RN	Fixing agent for acid dyeing on nylon & wool fabrics.	1. An excellent reserving agent when dyeing nylon/cotton blends 2. It imparts excellent fixing effect to improve the wet fastness of treated fabrics	Polyphenolic type condensate	Anionic
73	73	DYEBOND-IF	Dyebond-IF is a cross linking agent to improve washing fastness of Indigo and Sulphur dyed denim fabric/garment. It improves wet & dry crock resistance on the fabric. It improves wash fastness without significantly affecting the dye shade.	1. Improves wet and dry crock resistance on the fabric. 2. Improves wash fastness without significantly affecting the dye shade. 3. Effective over a wide pH range of 2.0 – 10.0. 4. High substantivity to cellulosic fibers. 5. Improves appearance of denim garments to washing. 6. Assists in yarn size retention. 7. Good treated with it keep their original indigo blue even after stone-wash. 8. Contains no formaldehyde.	Polyamide resin	Cationic
74	74	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.	1. It has an excellent dispersing effect on oligomers in acidic polyester dye baths. 2. Prevents filtration of oligomers in yarn packages. 3. Prevents oligomer deposits on machine parts. 4. Improves running properties of yarn for further processing steps. 5. No influence in shade.	Blend of specialty surfactants	Anionic
75	75	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. 2. Prevents filtration of oligomers in yarn packages. 3. Prevents oligomer deposits on machine parts. 4. Improves running properties of yarn for further processing steps. 5. No influence in shade.	Synthetic (modified) phyllosilicate	Anionic
76	76	ALTRAPERSE-MU	Altrasperse-MU is a special, solvent-free product for the cleaning of textile, printing and dyeing machines. It can also be used for reduction cleaning of PES dyeing.	1. Resistant to alkalis, acids and electrolytes in all usual concentration. 2. Resistant to hard water in all usual concentration. 3. Very high dissolving and dispersing capacity. 4. Solvent-free, hence no attack on rubber rollers, machine parts or varnishes.	Preparation of specialty surfactants	Weakly anionic
77	77	Altraplex VBE	Brightening/bleaching agent for wool, used to prevent the undesirable yellowing of wool caused by prolonged boiling during dyeing	1. Compatible with all normal dyebath additives. 2. Can improve the light fastness of pale shades. 3. Its efficiency is impaired in the presence of iron and copper salts.	Blend of inorganic salt	Nonionic
78	78	ALTRAPLEX-LA	Altraplex-LA is a liquid alkali for fiber reactive dyeing, i.e. soda ash replacement during reactive dyeing. It can be easily diluted with water in all proportions. It offers ease of handling and economy over solid products such as trisodium phosphate or soda ash.	1. Convenience- liquid vs. solid. 2. Reduced dyestuff hydrolysis. 3. Cleaner, brighter shades. 4. Dissolves in cold water. No CV logged drains. The problem of dissolving and cooling the solution of solid products is also eliminated. 5. Easier to rinse. Improved color yield. 6. Bag disposal is eliminated as is the problem of torn bags, loss of material and dusting. 7. Less load on effluent & less Total dissolved solids	Buffered alkalis	Nonionic
79	79	FIXER-ALN	Fixer-ALN is highly methylated melamine formaldehyde resin. It is designed for thermosetting surface coatings as a cross linker for primary film former to form a three dimensional thermo set polymer network with high performance properties. This involves the reaction of the functional groups on HM with complementary reactive groups on the primary film former	1. It is a very good cross linking agent. 2. It is used to increase the degree of crosslinking of polymer dispersions and improve the strength characteristics of the finished product. 3. A high degree of crosslinking contributes to increased resistance to wet treatments and solvents, as well as an increase in physical and mechanical properties. 4. The crosslinking reaction occurs at temperatures above 120oC. 5. As a catalyst, an acid additive-ammonia salts or MgCl2 can be used. 6. Practically no trend to white marking. 7. Very good wash fastness & dry cleaning resistance. 8. Long storage stability, when compared with conventional products.	Hexa methyl melamine formaldehyde	Nonionic

	A	B	C	D	E	F
82	80	CATALYST-CLT	Catalyst-CLT is a cross-linking agent for resins in aqueous medium. It improves the washing & dry-cleaning durability of cured films. It is formalin free and improves elastic recovery & shrink resistance.	1.It is used to reduce fixation temperature of resins and water based polymers. 2. It is a crosslinking agent designed to improve the physical characteristics polyacrylics , polyurethane, polyvinyl, SBR lattices, 3. It allows reduction in curing time and temperatures. Lower curing conditions ensures faster production, saving energy costs. 4. Improves the fastness of pigment prints to wet treatments. 5. The addition of Catalyst-CLT increases the possibility of Laundry Air Dry processes and the fabric protection is retained at a good level without subsequent ironing / heat treatment. 8. Brings durable film on the fiber surface without influencing the breathing properties. 9. Formaldehyde free. Environmentally friendly	Aqueous dispersion of a polyurethane based compound	Non-ionic
83	81	CATALYST-EC	Catalyst-EC is an eco-friendly crosslinking agent for pigment printing. It is particularly effective for prints taken on knitted, cellulosic fabrics, polyester / cotton, polyester / viscose and polyamides. Addition of it to a pigment paste enhances its fastness properties especially wet rubbing fastness.	1. Improvement in dry, wet rubbing fastness of pigment prints. 2. Cross-linking polymer. 3.Eco-friendly. 4. Formaldehyde, Meko and Butane Oxime free.	Polyamine derivatives	Non-ionic
84	82	ALTRAPLEX-NV	Altraplex-NV is a pH buffer for neutralizing alkaline finishing processes. Core alkali neutralizer	1. Is used for neutralizing of finishing processes. 2. Guarantees for a neutral to weakly acid pH value on the fabric. 3. The application of Altraplex-NV for neutralization compensates for a pH change on the fabric through the industrial water. 4. The pH value of fabric treated with Altraplex-NV does not change if stored or dwelled for a long time. 5. Prevents fiber damages in comparison to mineral acids. 6. Is not volatile and therefore causes no corrosion to the stenter or other machines. 7. It is odorless compare to formic acid & acetic acid.	Mixture of organic/inorganic buffers	Non-ionic
85	83					
86	84	ALTRAPLEX-1097	Altraplex-1097 is a Washing off or soaping agent for reactive dyed fabrics. It is a dispersant and protective colloid with binding properties for calcium, magnesium and heavy metal ions, for use in dyeing cellulosic fibers and their blends	1. Action based on dispersing and calcium/magnesium-inactivating properties: - Disperses sparingly soluble calcium and magnesium salts. Inactivates calcium and magnesium ions present in hard water and on cotton. 2. Dispersing properties: - Disperses the sparingly soluble salts that are formed from calcium and magnesium (e.g. calcium carbonate) and precipitated dyes and hardness ions. Improves dyebath stability Promotes the best possible conditions for level dyeing's. 3. . Binds heavy metal ions in water: - Binding with dyes sensitive to iron and/or copper. 5. Improves dye solubility: - Prevents dye agglomeration induced by hard water or salt additions. 6. No de-metallization of dyes:- No shade change or impaired light fastness.	Mixture of addition complexing agent & polymers	Anionic
87	85	ALTRAPLEX-R	Altraplex-R improves vat and sulfur dye oxidation. It oxidizes dyestuffs in an acid bath at high temperatures for more effective dye fixation, without the necessity of elaborate controls. It can replace any present vat and sulfur dye oxidation system on continuous ranges.	1. Improved Dye Value – it results in complete and efficient oxidation and may provide an increase of shade depth. 2. Quality - dyed fabric has an improved absorbency and hand when compared with fabrics that were dyed using dichromate for oxidation. 3. Versatility - can replace any present vat or sulfur dye oxidant on continuous ranges. 4. Stability - At elevated temperatures, the concentration of Altraplex-R remains constant, even in the presence of copper sulfate. 5. Environmental – is an effective replacement for heavy metal dye oxidants. It was developed to fill the need for an oxidizing chemical that would not materially affect plant effluents. 6. Safety – It is reasonably safe to use when handled with care. Its use can result in safer operating conditions when it replaces dye oxidants that are considered dangerous to handle.	Special oxidizing agent & surfactants	Nonionic

	A	B	C	D	E	F
88	86	ALTRAPLEX-XCW	Altraplex-XCW is a universal after soaping agent for the removal of reactive dye hydrolysate or unfixed direct dye from dyeing's on cellulosic material	<ol style="list-style-type: none"> 1. Reduces the number of rinsing and soaping steps required. 2. Removes the hydrolysate from the material. 3. Retains hydrolysate in the liquor and prevents their re-deposition on the material. 4. The action is virtually independent of pH, independent of salt concentration. 5. Enables the possibility of reducing after soaping temperatures for temperature sensitive substrate blends. 6. Performance not effected by water hardness 	Vinyl co-polymer	Weakly anionic
89	87	ALTRAPERSE-CSN-ECO	Altraperse-CSN-ECO is efficient complexing agent and protective colloid for dyeing cotton and blends with vat dyes. It does not affect the shade or fastness of textiles. It is free of phosphates and phosphonates.	<ol style="list-style-type: none"> 1. It has an excellent dispersing action on impurities of cotton and precipitated solids caused by hard water. 2. Ensures a high color yield when vat dyes are applied in the presence of hardness. 3. It prevents Ca²⁺ and Mg²⁺ ions from complexing with anionic dyes thereby reducing dye yield. 4. It has no demetallising effects on metal-containing dyes. 5. It is low foaming, biodegradable and has no contribution to the AOX of waste water. 	Polymeric carboxylic acid	Weakly anionic
90	88	ALTRAPLEX-LTS	Altraplex-LTS is a multifunctional soaping agent which works at temperature from 60 - 98°C. It gives Optimal soaping result, independent of hardness degree and salt content.	<ol style="list-style-type: none"> 1. Soaping at 60 – 70°C. 2. Optimal soaping result, independent of hardness degree and salt content. 3. Saving of water and energy effectiveness by shorter processing time. 4. Antiback staining. 5. Optimization potential depends on applied reactive system. 6. Ecofriendly. 	Vinyl Co-Polymer	Anionic
91	89	DYMAX-TWE	Dymax-TWE system represents a valid alternative to the traditional soaping process, generally performed with several washing at boiling temperature. Dymax-TWE allows a substantial reduction in terms of treatment baths, all performed at the maximum temperature of 50 .	<ol style="list-style-type: none"> 1. Dymax-TWE has a particular cationic nature which enables it to react with the hydrolyzed dyes and, subsequently, with the fiber. 2. This polymer has a special chemical nature, which allows diverse actions as follows: <ul style="list-style-type: none"> - The reaction between the polymer with both, hydrolyzed and partially hydrolyzed dyes, generates a complex with affinity to the fiber. - The complex forms a stable bond with the fiber. Such bond has a very high stability. - The polymer reacts with the dyes previously fixed on the fiber. 3. Very good wet fastness also with repeated washes. 4. No influence on the light fastness of the dyestuffs. 5. If correctly applied the product exhaust nearly completely on the fiber and no residual product remains in the bath 	Quaternary ammonium compound	Cationic
92	90	REDUCIT-ECO	Reducit-ECO is a reducing agent, to be applied in the cooling dye bath at acidic pH.	<ol style="list-style-type: none"> 1. In a cooling acidic dye bath, it has an excellent reducing effect and is very suitable for removing unfixed disperse dyes from dyeing's and prints on polyester substrates. 2. It is Low in odor. 3. With Reducit-ECO, alkalizing the bath or preparing a fresh post-clearing bath is no longer necessary nor it is necessary to re-acidify the Reducit-ECO bath subsequent to alkaline after treatment. 4. Shortens process time, reduces water and energy consumption and saves cost. 	Sulphinic acid derivative aqueous solution	Non-ionic
93	91	REDUCIT-RC	Reducit-RC is a reducing agent, to be applied in the cooling dye bath at acidic pH.	<ol style="list-style-type: none"> 1. In a cooling acidic dye bath, it has an excellent reducing effect and is very suitable for removing unfixed disperse dyes from dyeing's and prints on polyester substrates. 2. It is Low in odor. 3. With Reducit-RC, alkalizing the bath or preparing a fresh post-clearing bath is no longer necessary nor it is necessary to re-acidify the Reducit-RC bath subsequent to alkaline after treatment. 4. Shortens process time, reduces water and energy consumption and saves cost. 	Sulphinic acid derivative aqueous solution	Non-ionic

	A	B	C	D	E	F
94	92	REDUCIT-RC-PDR	Reducit-RC-PDR it is highly effective, biodegradable reducing agent for alkaline reductive clearing of dyeing's & prints on polyester fabric.	1. High reducing power in alkaline reduction cleaning. 2. Suitable for stripping faulty dyeing's on polyester & cellulosic. 3. Suitable for cleaning soiled units. 4. No oxidative decomposition during storage, no self-ignition. 5. Virtually odorless free flowing powder.	Aminoiminomethanesulfonic acid	Anionic
95	93	ALQUAT-4035	Alquat-4035 is a specially developed cationic, water soluble polymer intended for use in the cationising of cotton goods prior to dyeing process.	1. Cationizer for pigment dyeing by exhaust process. Garment dyeing i.e. pigment dyeing for brighter colour , reactive & direct dyes. 2. It is also used as an after finishing agent to improve wash and crock fastness of reactive and direct dyed fabrics. It increases the amount of dye uptake that can be exhausted onto cellulosic fabric with direct, pigment, fibre reactive, sulphur dyes, vat and indigo.	Polycation	Cationic
96	94	Alquat-CCL	Cationic, water-soluble polymer intended for use in the "Cationising of cotton" goods prior to garment dyeing process. Pigment Dyeing By Exhaust.	1. Economical. 2. Pigment dyeing by exhaust 3. Brighter shades	Polyamine resin and inorganic salts	Cationic
97	95	Alquat-5851	Cationic, water-soluble polymer intended for use in the "Cationising of cotton" goods prior to garment dyeing process. Pigment Dyeing By Exhaust. Cationiser for reactive & direct dyes	1. Cationizer for pigment dyeing by exhaust process. Garment dyeing i.e. pigment dyeing for brighter colour , reactive & direct dyes. 2. It is also used as an after finishing agent to improve wash and crock fastness of reactive and direct dyed fabrics. It increases the amount of dye uptake that can be exhausted onto cellulosic fabric with direct, pigment, fibre reactive, sulphur dyes, vat and indigo.	Polyamine resin and inorganic salts	Cationic
98	96	DYTEC-SFD	Dytec-SFD is a multi-functional pre-treatment dyeing auxiliary to enhance complete exhaustion of anionic dye bath such as reactive, direct, sulfur, vat and pigments.	1. Salt free dyeing. 2. Complete exhaustion of dye bath with very deep dark shades. 3. 40-50% reduction of dyeing time for increased productivity. 4. Fewer fixing agents & additives required. 5. Lower water required. 6. Reduced effluent toxicity, no salt in effluent. 7. Little cleaning of equipment for faster turnaround.	Cationic polymer	Cationic
99	97	ALQUAT-CF	Alquat-CF is a specially developed cationic, water soluble polymer intended for use in the cationising of cotton goods prior to dyeing process.	1. Cationizer for pigment dyeing by exhaust process. Garment dyeing i.e. pigment dyeing for brighter colour . 2. Catinization in both alkaline & acidic pH condition 2. It is also used as an after finishing agent to improve wash and crock fastness of reactive and direct dyed fabrics. It increases the amount of dye uptake that can be exhausted onto cellulosic fabric with direct, pigment, fibre reactive, sulphur dyes, vat and indigo.	Polyetheramine	Cationic
100	98	ALQUAT-M	Alquat-M is a specially developed cationic, water soluble polymer intended for use in the cationising of cotton goods prior to pigment dyeing , acid dyeing on cotton	1. Cationizer for pigment dyeing by exhaust process. Garment dyeing i.e. pigment dyeing for brighter colour 2.Cationiser for direct, reactive & acid dyes on cotton	Polyamine resin	Weakly Cationic
101	99	Triplex TOW	Formaldehyde free pigment binder. Auxilaury for wave dyeing	formaldehyde free thermoplastic Acrylic Emulsion Polymer which exhibits extra-ordinary flexibility, good water resistance high pigment loading capabilities.	Acrylic copolymer	Cationic
102	100	Triplex LNW	Triplex-LNW is a self cross linking acrylic emulsion	Triplex-LNW is an APEO free, self cross linking acrylic Co-Polymer Emulsion with soft, durable film properties. Due to its Unique Emulsifying properties Triplex-LNW gives higher print paste viscosity with same amount of thickener.	Acrylic copolymer	Anionic
103	101	TRIPLEX-K-60	Triplex-K-60 is a cross linked acid polymer used to produce an excellent thickener for effective pigment and dye printing. It is also effective as a touch up thickener to prevent migration.	1. It has an excellent durability while washing and dry cleaning. 2. Can also be used as a sizing agent for nylon/polyester and acetate yarn filaments. 3. Exhibits excellent adhesion. 4. Is also recommended for fabric back coating, fabric finishing and lamination. 5. Is a soft durable self-cross linking emulsion for pigment printing on machine and screen.	Cross linked acrylic emulsion co-polymer	Anionic
104	102	DERMASIL-SIG	Dermasil-SIG is a concentrated silicone-based auxiliary. It imparts a pleasingly soft dry handle to pigment-printed fabrics and improves their fastness.	1. Dermasil-SIG improves the moist, tacky handle that sometimes results from using very soft binders. 2. It also acts as a softener and has a positive effect on the brilliance and fastness of the prints, especially the dry rub fastness	Polydimethyl siloxane	Non-ionic

	A	B	C	D	E	F
103	103	SUPERSIL-SOFT-PG	Supersil-Soft-PG is micro emulsion concentrate of specially engineered organo functional polysiloxane. It is a premium pigment print softener which imparts soft smooth & non tacky handle. It imparts an exceptionally soft full & luxurious handle along with improved resilience & fabric physicals	<ol style="list-style-type: none"> 1. Its fine particles size ensures faster & uniform penetration into the fabric, making it less a surface treatment & more an internal softener. 2. Its high concentration makes it extremely economical in usage & easy to handle. 3. Provides flexibility by allowing appropriate dilution based on following parameters. a) Fabric to liquor ratio, b) Desired finish and c) Cost. 4. The running properties of the print pastes are improved. 5. Excellent softness on pigment printed fabric & improves rub fastness properties of prints. 6. Premium smoothness & non-tacky handle on printed fabrics. 7. Improvement in fabric physicals, tear strength, abrasion resistance, cut and sew performance, bending rigidity and co-efficiency of friction. 	Functional polysiloxane	Weakly cationic / non-ionic
105						
104	104	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"> 1. Treated fabric exhibits excellent ultraviolet absorbing properties durable to washing resulting in improved UPF/SPF ratings on cellulosic fabrics 2. It has little self-color and therefore has virtually no influence on the shade of dyeing's. 	Benzotriazol derivative	Non-ionic
106						
105	105	STABILITE-SLP-NEW	Stabilite-SLP-NEW is a highly efficient UV absorber to process polyester textile goods selected for the automotive industry	<p>☑ Improves the hot lightfastness of polyester dyeing's with disperse dyes for the automotive industry which already have good lightfastness.</p> <p>☑ Reduces fiber damage due to photochemical degradation.</p> <ol style="list-style-type: none"> 1. It has a very good dispersion stability and is therefore particularly suitable for exhaust dyeing. 2. It has little self-color and therefore has virtually no influence on the shade of dyeing's. 3. Improves the light fastness of disperse dyes in general. 4. Improves the light fastness of dispersed dyes submitted to the test of the automotive industry 	Benzotriazol derivative	Anionic
107						
106	106	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"> 1. Excellent Improvement for Light Fastness: <ul style="list-style-type: none"> - High temperature duration with less discoloration. 2. Less Fiber Strength Loss after Photo-Decomposition: <ul style="list-style-type: none"> - Improve fiber strength stability and durability. 3. High Exhaustion Capability: <ul style="list-style-type: none"> - Full exhaustion after high temperature dyeing. 4. Low Foaming Performance: <ul style="list-style-type: none"> - Suitable for Jet or yarn dyeing. 	Benzotriazone derivative	Anionic
108						
107	107	DYEBOND-425	Dyebond-425 is a special high molecular weight cationic compound designed to demand high wet rubbing fastness for trouble-shooting on deep navy, black, red shades on cellulose fiber and its blends, accompanied with high value-adding benefits for dyeing mills & apparel brands.	<ol style="list-style-type: none"> 1. It improves distinctly both the dry and wet rubbing fastness on 100% Cotton, Rayon, PET/cotton blends. It is applied for the aftertreatment of dyeing and prints. 2. No influence to washing, and perspiration fastness and the handle of fabric. 3. Does not lead to any shade deviations. 4. It is extremely effective on indigo dyed denims. 5. Applicable by both PAD & Exhaust. 6. Good hydro absorbency. 7. Low foaming & excellent solubility. 8. Free of formaldehyde, dimethylformamide & butanone oxime 	Waterborne polyurethane	Cationic
109						

	A	B	C	D	E	F
110	108	DYEBOND-MAX-NEW	Dyebond-MAX-NEW is a rub fastness improver after treatment agent, highly effective for cellulosic and synthetic fibres. It reduces the colour abrasion from dyed cellulose fibres, synthetics and their blends. The fastness's to light, washing and contact of the treated fabrics are not impaired with the shade intensification is manageable.	1. The wet rubbing fastness can be improved significantly. It is Suitable for 100% Cotton, Rayon, PET/cotton blends. 2. It improves the wet rubbing fastness of dyeing's considerably which increases the fabric quality. 3. It is extremely effective on indigo dyed denims. 4. It has no influence to washing, perspiration fastness, and handle of fabric. 5. Applicable by both PAD & Exhaust. 6. Good handle & hydro absorbency. 7. It improves the pilling behavior of the fabric considerably. 8. Low foaming & excellent solubility. 9. Free of formaldehyde, dimethylformamide & butanone oxime.	Waterborne polyurethane	Cationic
111	109	AQUASORB-SR	It imparts durable soil release & anti-soil re-disposition properties to 100% polyester, nylon & its blends	Finishing polyester, nylon fabrics with Aquasorb-SR improves: - Antistatic properties - Soil release - Anti-soil redistribution - Water drop absorption - Wicking	Polymeric hydrophile	Non-ionic
112	110	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.	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. 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. 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. 4. Enhanced stain removal: It makes it easy to wash off oily or greasy stains and keeps the fabric fresh and clean.	Polymeric Hydrophile	Non-ionic
113	111	ALTRAPLEX-ZIP	Altraplex-ZIP is a corrosion inhibitor and passive inhibitor for water systems.	1 Generally used as passive and corrosive inhibitor of metal structures when water systems are used. 2 Dyeing of ready-made garments with metal buttons and/or zips, protects accessories - especially the copper ones - from the chemical attack caused by the operative conditions, preventing stain formation due to metal accessories. 3 Does not alter dyes features; in any case preventive tests are recommended.	Corrosion inhibiting agent, phosphoric acid derivative	Anionic
114	112	ALTRAPLEX-AB-45	Altraplex-AB-45 is used in dyeing of polyester fibers with dyes at all storages of processing in HT processes on jets and circulating liquor machines. Altraplex-AB-45 is recommended for pH sensitive dyes and also recommended for dyeing of polyester blends.	1. Good buffer capacity: Robust dyeing system "Right First Time" hence cost savings. 2. No problems with correct pH measurement: No pH change through electrolytes and added substance to the dyebath. 3. No impact on fastness: Compatible with all auxiliaries and UV absorbers. 4. No extra addition of acid required to adjust the pH Easy and safe handling. 5. Non-foaming: Suitable for jets	Based on organic acid and salts	Anionic
115	113	QUEST-3P	Quest-3P is a highly efficient antistatic agent for universal application. It has a good stability to the usual concentrations of acids, alkalis and salts. It can be combined with anionic and non-ionic products. Its compatibility with cationic products has to be checked in preliminary trials.	Excellent antistatic effect. 1. Suitable for all fiber sorts; preferred application on synthetic fibers and their blends. 2. No influence on handle. 3. No yellowing, even at higher drying and fixing temperatures. 4. The color shade and the fastness level of the dyeing's not influenced. 5. Can be well combined with softeners and other finishes; in combination with cationic products we recommend carrying out preliminary tests to verify the compatibility.	Phosphoric acid ester	Anionic