



**Sarex**

Sarex stands for quality products!

**CHEMISTRY BEHIND  
GOOD FEELINGS**

# **CONSOLIDATED PRODUCT LIST**

Concentrated Product List | Export Product List | Special Products For Polyamide  
Sustainable Products - Cost, Time & Energy Saving



**ITMA 2023**



## FROM THE DESK OF THE DIRECTOR

As a leader in our Textile Chemical industry we strive to find ingenious solutions to the challenges and ever-changing concerns and demands of our customers. Sarex is dedicated to provide highest quality textile auxiliaries and services to the required textile industry. Our products are designed to meet the standards of safety, sustainability and quality, while providing cost-effective solutions to customers.

In light of this, we are glad to introduce our new and improved product range of textile chemicals which include products for Pre-Treatment, Dyeing and Finishing for all textile substrates. We have included functional finishes like Wet rubbing fastness improver, C6 based Oil and Water repellents, Fluorine free water repellents, Chlorine fastness improvers, Flame Retardants, Pre-treatment for digital ink-jet printing, Moisture management etc.

We also have a separate section for Sustainable products which are Time and Energy saving products and some are Bio based.

In order to justify customers faith; Sarex has invested in a State of Art laboratory accredited by M&S. The laboratory has State of Art equipments like Brucker FTIR, the smallest FTIR in the world, apart from HPLC, GC, and Microbiological laboratory to maintain strict quality standards. Sarex is also now a bluesign system partner and more than 160 products are GOTS approved.

Our team of experts is committed to providing the best possible customer experience through our comprehensive technical and product support services. We look forward to working with the textile industry to create a better future and to provide Bio based products made from recycled resources.

**“We not only provide products but also solutions”**

We welcome your comments and apologize for inadvertent errors in this booklet.

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# TABLE OF CONTENT



**I****CONCENTRATED  
PRODUCT LIST****04 - 13****01** PRE-TREATMENT**04****02** DYEING**05****03** PRINTING AUXILIARIES**08****04** FINISHING**09****II****EXPORT  
PRODUCT LIST****14 - 26****01** PRE-TREATMENT**14****02** DYEING**16****03** PRINTING AUXILIARIES**19****04** FINISHING**20****III****SPECIAL PRODUCTS  
FOR POLYAMIDE****27 - 30****01** PRE-TREATMENT**27****02** DYEING**27****03** PRINTING AUXILIARIES**27****04** FINISHING**28****IV****SUSTAINABLE PRODUCTS  
- COST, TIME & ENERGY SAVING****31**

# CONCENTRATED PRODUCT LIST





PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	

## PRE-TREATMENT



### WETTING AGENTS / DETERGENTS

<b>CELLEDET-R</b>  Concentrated, ultra low foaming wetting agent cum detergent	n	80	✓	✓	✓	It exhibits good rewetting properties and is suitable for scouring and bleaching.
<b>LUTOL-AN</b>  High performance, low foaming detergent	a	40	✓	✓	✓	A high performance, low foaming detergent designed for scouring and bleaching of cotton and synthetic fibres in machines of high liquor turbulence. It is especially suitable for turquoise shade.
<b>SARAKOL-NF (CONC)</b> Low foaming, wetting and de-aerating agent	a	95	✓	✓	✓	It is used for continuous as well as for exhaust application particularly in yarn package dyeing to achieve uniform dyeing. It can also be added in desizing bath in continuous batch process to improve pick-up. It is stable to high concentration of caustic.

### SCOURING & BLEACHING AGENTS

<b>UNIV-AIO</b>  All in one pre-treatment auxiliary	a	100	✓			It eliminates the use of caustic, wetting agent, stabilizer and sequestering agent during bleaching resulting in lower effluent load. It yields bleaching effects equivalent to that of conventional bleaching.
<b>UNIV-811</b>  All in one pre-treatment auxiliary that replaces caustic, stabilizer and sequestering agent in bleaching bath	n / wa	100	✓			It is a bleaching aid for combined scouring and bleaching of cotton and its blends. It reduces weight loss of cotton by 1-2% and hence more kilogram of material is achieved after bleaching. Very low Chemical Oxygen Demand (COD) of the drain bath hence minimizing the pollution potential.
<b>ALKANOL-NP (MOD)</b>  Pre-treatment auxiliary to replace caustic, peroxide, stabilizer and sequestering agent in bleaching bath	a	100	✓			It is a no caustic and no peroxide bleaching agent. It is a single auxiliary which eliminates the use of caustic and peroxide during bleaching thereby reducing the Total Dissolved Solids (TDS) and Chemical Oxygen Demand (COD) load in the effluent. It also reduces weight loss.
<b>KETOPREP-LA (CONC)</b>  Low caustic, single stage scouring and bleaching agent; replaces wetting agent, stabilizer and sequestering agent	n / wa	65	✓			Bleached fabrics exhibit good absorbency and whiteness along with low weight loss and strength loss. The bleached yarn has lower co-efficient of friction, improved strength and reduced hairiness coupled with improved loom efficiency.

### SEQUESTERING AGENTS

<b>CHELATIN-SA</b>  Sugar acrylate based biodegradable sequestering agent	a	55	✓			An efficient sequestering agent which is applicable at all stages in wet processing. It works at broad pH range (4-11). It can also be used as a stabilizer in bleach bath. It acts as a dispersing (protective colloid) agent as well.
<b>SARAQUEST-W (CONC)</b> Economical, calcium, magnesium and iron sequestering agent 	n	100	✓	✓		It is suitable for combined scouring and bleaching operation. It prevents catalytic damage and pin hole marks during peroxide bleaching.
<b>IRONSTRONG (CONC)</b> Iron sequestering agent	n / wa	100	✓			It acts as a preferential chelating agent for iron impurities originating from textile goods or from water thereby preventing pin holes and catalytic damage of cotton.
<b>QUEST-AMP</b> ATMP based sequestering agent for scouring, bleaching and dyeing	n	55	✓			It is based on Amino Trimethylene Phosphonic Acid (ATMP) giving excellent chelation of metal ions. It can be incorporated in various chemical water treatment, detergents and soaps. It can also be used during bleaching of cellulosic and its blends. It can be used in dyeing as it does not affect dye shade.
<b>QUEST-DMP</b> DETMP based sequestering agent	n	55	✓			It is Diethylene Triamine Pentamethylene Phosphonic Acid (DETMP) based sequestering agent. It has a good peroxide stabilizing action and hence reduces the concentration of organic stabilizer in bleaching.




PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
<b>QUEST-HP</b> Organophosphonate (HEDP) based sequestering agent	n / wa	60	✓	✓		It is Hydroxy Ethylidene Diphosphonic Acid (HEDP) based sequestering agent having high calcium, magnesium and iron chelation efficiency. It is mainly used in bleaching of cellulose and its blends. It prevents catalytic damage and pin holes.

#### PEROXIDE STABILIZER

<b>SARASTABIL (CONC)</b> Peroxide stabilizer in powder form, Easily dilutable	a	100	✓	✓		It is a product with optimum stabilizing power even under adverse conditions of metal contaminants. It can be used in combined scouring and bleaching process. It is suitable in exhaust and continuous application.
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#### DEFOAMERS

<b>SARADEFOAM</b>  Concentrated, Non-silicone based defoamer	n	100	✓	✓	✓	It is suitable for all types of textile processing in batch process. It is most suitable for exhaust dyeing.
<b>SARASIL-JS (CONC)</b> Silicone based defoamer, stable to alkaline pH	a	40	✓	✓	✓	It is stable to shear force and high temperature. Due to its high shear stability, it does not lead to any objectionable deposits on machines or substrates.
<b>DEFOAMER-50</b> Concentrated, Silicone based defoamer	n	50	✓	✓	✓	It is suitable for all textile processing where foam control is essential e.g. jets, overflow dyeing machines, package dyeing machines, winches, jiggers and printing machines. It has high shear stability over wide pH range and wide temperature conditions.
<b>DEFOAM-PEJ</b> 100% active antifoam	–	100	✓	✓	✓	It give outstanding anti foaming characteristics along with surfactant compatibility. It is stable to alkaline atmosphere. It does not give silicone spotting.

#### BIO-POLISHING AGENTS


<b>BIOFEEL-PST (CONC)</b> Acid cellulase enzyme	n	–	✓	✓		An acid cellulase enzyme for bio polishing of cellulosic and cellulosic/polyester blends. It is also suitable for colour fading of denim garments.
<b>BIOPOL-PLUS (CONC)</b> Multicomponent enzyme	n	–	✓	✓		It is used for peroxide killing and bio-polishing in the same bath leading to conservation of water, time and energy.

#### OPTICAL BRIGHTENING AGENTS

<b>CAREWHITE-BBU 250%.</b> High affinity, Bluer tone, suitable for cellulosic	a	100	✓			It is available in powder form and is suitable for continuous application.
<b>SARAWHITE (CONC).</b>  High affinity, Neutral tone, suitable for cellulosic	a	100	✓		✓	It is in powder form. It gives good light fastness on cellulose. It is stable to peroxide as well as reductive bleach liquors hence combined bleaching and optical brightening can be carried out. It is highly suitable for exhaust application.
<b>SARAWHITE-COL.</b> High affinity, Bluer tone, suitable for cellulosic	a	100	✓			It is available in powder form and exhibits good wash fastness. It is highly suitable for exhaust application. It can be applied in one bath along with peroxide bleaching. It is durable to home launderings.




## DYEING

#### LEVELLING, DISPERSING & RETARDING AGENTS

<b>DYEWELL-002 (CONC)</b>  Levelling agent for polyester	n	100		✓		It equalizes the strike rate of different classes of disperse dyes at high temperatures. It possesses good dispersing, migrating and levelling properties.
<b>SARAKOL-RDL (CONC)</b> Low foaming, solubilising cum levelling agent for reactive dyeing	a	50	✓			It prevents dye agglomeration resulting in level dyeing in soft flow and package dyeing machines. It is ideal for sensitive shades like turquoise blue.
<b>NYLOLEVEL-606 (XC)</b> Levelling agent for polyamide, dyestuff affinity	n	100			✓	It is suitable for dyeing of nylon, wool and silk fabrics which are dyed with acid dyes. It possess excellent migration property which results into uniform and level dyeing. It is also suitable for metal complex dyestuffs.

PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
<b>RETARDER-ACR</b> Concentrated and economical acrylic retarding agent	c	80				It is a levelling agent for acrylic and its blend. It works by retarding mechanism and it also corrects faulty dyeing.
<b>SARAGEN-SO</b> Dispersing agent for polyester dyeing in powder form	a	100		✓		It is used in dyeing and printing of polyester and its blends.
<b>SARALINE-FI (CONC)</b> Versatile dispersing and emulsifying agent for all substrates	n	100	✓	✓	✓	It helps to stabilize the bath for better runnability under adverse conditions. It also helps in smooth running of the continuous bath, hence preventing roller build-up.


### LUBRICATING & ANTICREASING AGENTS

<b>ANTICREASE (CONC)</b>  Economical, lubricating and crease preventing agent in powder form	a	100	✓	✓	✓	It forms a thin, uniform, protective coating around the fibre to lower the surface friction, thus minimizing the formation of durable creases during high temperature wet processing of polyester. It is suitable for batch process.
<b>SARACREASE- HG (CONC)</b>  Concentrated and low foaming crease preventing agent	a	80	✓	✓	✓	It is a low foaming lubricating agent which forms a thin and uniform protective coating around the fibre which lowers the surface friction and flexural rigidity thus minimizing fibre-to-fibre friction, fibre-to-metal friction and the formation of durable creases during high temperature wet-processing.
<b>YARNSOFT-FRS (CONC)</b>  Concentrated, yarn lubricating agent	n	75	✓	✓		A finishing agent for yarns to improve rewinding performance. It is suitable for exhaust as well as lick roll / kiss roll application. It improves lubricity and gliding properties of treated yarn. It also imparts antistatic properties.

### SODA ASH SUBSTITUTE

<b>FEDA-SH (MOD)</b> Soda ash substitute	a	100	✓			Owing to its excellent buffering capabilities, it decreases the reactive dye hydrolysis and hence increases the extent of reactive dye fixation.
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### pH SLIDING AGENT

<b>ACIDON-PA</b>  pH sliding agent	n	100			✓	It controls the pH throughout dyeing with acid dyes and thus ensures uniform and reproducible dyeing for polyamides.
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### OLIGOMER REMOVER

<b>ELIMINATOR-GLO (CONC)</b> Oligomer remover and machine cleaning agent	a	40		✓		It is used in package dyeing to avoid oligomer deposition on the package and the machine.
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### REDUCTION CLEARING AGENT



<b>REDUCON-ACD (CONC)</b>  Reduction clearing agent which works in acidic medium	n	100		✓		It is added after polyester dyeing in the same bath for reduction clearing. It reduces process time and saves water and steam.
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### STRIPPING AGENT

<b>FABSTRIP-NS</b>  Reactive dye stripping agent	n	100	✓			It is used for stripping of reactive dyes from cellulosic fabrics. It prevents the damage of lycra blended fabric unlike observed in conventional method of stripping using caustic and hydrosulphite.
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### WASHING-OFF AGENTS






<b>PARAKOL-YS</b>  Polymeric, economical dyebath conditioner and washing off agent	a	100	✓			It is high temperature stable washing off agent for reactive dyes. It also prevents precipitation of reactive dyes in presence of calcium and iron impurities. It is suitable for batch as well as continuous process.
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PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
<b>SARAKOL-PDR</b>  Dye bath conditioner and washing-off agent in powder form	a	100	✓			It is an acrylic copolymer based product having excellent dispersing action and sequestering property. It is readily dilutable with water. It is a good dye bath conditioner for package dyeing.
<b>SARAKOL-738</b>  Economical washing-off agent in powder form	a	100	✓	✓		It is recommended as washing-off agent for reactive dyes in batch as well as in continuous process. It possess good dispersing action. It does not form complex with dyes hence colour yield or tone of the fabric is not affected.
<b>SARAKOL-AD</b> Multifunctional auxiliary for reactive dyeing	a	40	✓			It is a washing-off agent for reactive dyed and printed cellulosic fibres and their blends. It effectively works in presence of electrolyte. Its acts as a good dye bath conditioner for package dyeing.
<b>ITAWASH- LT (CONC)</b> Low temperature washing-off agent for reactive dyed/printed fabrics	c	40	✓			It reduces time, energy and water against conventionally used washing-off agent.
<b>SARAKOL-0472.</b> Single bath washing-off agent for reactive dyes, dark shades	a	55	✓			It is a single bath, high temperature washing off agent for fabrics dyed with reactive dyestuff for darker shades. It ensures easy removal of hydrolysed dyes and prevents re-deposition thereby improving overall fastness properties.


#### DYE TRANSFER INHIBITORS


<b>ARKOLAN-66</b> Dye transfer inhibitor or Anti-tinting agent	n	40	✓			It prevents re-deposition of dye on the fabric during washing off process of yarn dyed shirting and printed fabric. It can also be used as an additive in laundry formulations.
<b>ESTO-PVP</b> Concentrated product, prevents cross-staining of dyes	n	100	✓			It can be used in batch as well as in continuous process. Due to its good rinsing ability, it is easily washed-off and does not interfere in subsequent dye fixing or softening process.

#### DYE FIXING AGENTS FOR REACTIVE & DIRECT DYES

<b>FIXANOL (CONC)</b>  Polyamine based concentrated formaldehyde free dye fixing agent	c	80	✓			It improves fastness of reactive and direct dyed fabric to washing, water and perspiration without adversely affecting the shade and light fastness.
<b>SARADYE-FN</b>  Polyamine based formaldehyde free dye fixing agent	c	40	✓			It improves fastness of reactive dyed fabric to washing, water and perspiration without adversely affecting the shade and light fastness. It is also suitable for direct dyes.
<b>FERAFIX-PDM</b> PolyDADMAC based formaldehyde free powder dye fixing agent	c	100	✓			It is a powder dye fixing agent for cellulosic fabrics dyed with anionic dyes viz., Reactive, Direct, Indigo and Sulphur dyestuffs.
<b>KATAFIX-BC</b>  PolyDADMAC based formaldehyde free dye fixing agent	c	45	✓			It is suitable for cellulose dyed with Reactive, Direct, Indigo and Sulphur dyestuffs. It improves the washing fastness, perspiration fastness and water fastness of dye fixed fabrics with low to negligible shade change.
<b>KATAFIX-RD</b>  Formaldehyde free dye fixing agent	c	50	✓			It improves fastness properties of reactive and direct dyed fabric with low to negligible shade change. It improves washing, water and perspiration fastness. It does not show deterioration in light fastness.
<b>ERGOFIX-ALS</b>  Formaldehyde free dye fixing agent for cellulose and denims	c	50	✓			It is formaldehyde free, dye fixing agent for cellulose dyed with Reactive, Direct, Indigo and Sulphur dyestuffs. It improves the washing fastness, perspiration fastness and water fastness of dye fixed fabrics.


#### DYE FIXING AGENTS FOR ACID/METAL COMPLEX DYES

<b>NYLOFIX-993</b>  Acid stable dye fixing agent in powder form	a	100			✓	It improves wet fastness properties of the dye fixed fabrics. It can also act as a reserving agent for polyamide /cellulosic blends.
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PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
<b>SARAFIX-NEW</b>  Acid stable dye fixing agent	a	55			✓	It improves wet fastness properties of the dye fixed fabrics. It can also be used as a reserving agent for polyamide /cellulosic blends. It is especially suitable for light and pastel shades.
<b>FLUOROFIX-877</b> Dye fixing agent for fluorescent acid dyes	a	55			✓	It improves the washing fastness and wet fastness properties viz., water contact fastness, sea water fastness and perspiration fastness of the dye fixed fabrics. It will not affect fluorescence of the dyed fabric.

## PRINTING AUXILIARIES


### DIGITAL / INK-JET PRINTING

<b>DIGIPRINT-7146</b>  Pre-treatment auxiliary for reactive inks in powder form	a	100	✓			It is used in pre-treatment of cellulose forming surface film on the fabric to get sharp prints. It gives consistent viscosity and pick up.
<b>DIGIPRINT-7146 (MOD)</b> Pre-treatment auxiliary for urea-free processing of reactive inks	a	100	✓			It is used in pre-treatment of cellulosic fabrics enabling urea free process of reactive digital printing. It delivers prints with sharp outline and improved colour value.
<b>SARASOL-MB</b> Pre-treatment auxiliary for disperse inks on polyester	c	55		✓	✓	It is a pre-treatment agent applied in continuous process before Ink-Jet printing. It is concentrated, economical and easily dosable.

### REACTIVE PRINTING

<b>REATHICK-612</b>  Hybrid thickener for reactive printing	a	100	✓			It exhibits prints with high brightness and levelness. It has excellent permeability with uniform colour yield. It gives much better and cleaner print than sodium alginate. It is suitable for both, flat bed and rotary screen printing.
<b>REATHICK-919</b> Non-alginate synthetic thickener	a	100	✓			It is a sodium alginate substitute for reactive dye printing on cellulosic and viscose substrates. It exhibits prints with high brightness, high brilliance and high permeability. It is suitable for both, flat and rotary screen printing.
<b>REATHICK-7917</b> Cost effective synthetic thickener	a	95	✓			It delivers prints with high brilliance and permeability with uniform colour yield. It gives much better and cleaner prints than sodium alginate. It is suitable for both flat bed and rotary screen printing.
<b>SUPER R SALT</b>  Mild oxidizing agent	a	100	✓			It is used during reactive dyeing and printing to protect the shade from reducing atmosphere during steaming.

### PIGMENT PRINTING

<b>CELLBIND-FF</b> Formaldehyde free, Soft binder	a	40	✓	✓	✓	It imparts very good wash, rubbing fastness and resistance to abrasion. It gives very good brightness, soft and elastic handle to printed fabrics. It can also be used as a coating agent to impart soft feel to the fabric.
<b>CELLBIND-7838</b> Medium hard acrylic binder	a	50	✓	✓	✓	It has excellent pigment loading characteristics, alkali resistance and good durability to washing and dry cleaning. It gives excellent wash fastness and can be used in coating.
<b>CELLBIND-PD</b> Formaldehyde free binder for pigment dyeing	a	40	✓	✓	✓	It gives very good brightness and soft handle to dyed fabrics. It imparts very good rubbing fastness. It can also be used as a coating agent to impart soft feel to the fabric.
<b>SYNTHICK-P 328</b> Synthetic thickener for pigment printing	a	95	✓	✓	✓	It disperses readily in water. It can also be used as thickener for preparation of coating recipe.
<b>CROSSPRINT-CL(CONC).</b>  Formaldehyde free crosslinking agent for pigment printing	n	45	✓	✓	✓	It enhances fastness properties especially wet rubbing fastness of printed fabric.
<b>TEXPRINT-FF</b> Formaldehyde free crosslinking agent for pigment printing	a	45	✓	✓	✓	It enhances the wet rubbing fastness properties of pigment printed fabrics.






PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
<b>SARAPRINT-AC</b> Melamine formaldehyde based resin	n	60	✓	✓	✓	It is added to a pigment printing paste to enhance the scrub fastness and wet rubbing fastness of pigment printed fabric. It can also be used for finishing of interlining fabrics to impart a durable and stiff handle. It is also used as cross linker in coating recipe.
<b>TEXPRINT-PP</b> Silicone softener for pigment printing	n	75	✓			It is to be added in the print paste. It imparts soft and dry handle to the printed fabrics. It does not impair the fastness properties of pigment printed fabrics.

#### OTHER PRINTING AUXILIARIES

<b>FABPRINT-PES</b> Synthetic thickener for disperse printing	a	80		✓		It is easy to handle and gives lump free paste. It imparts very good colour yield with sharpness.
<b>REDUCIT-ZS</b> Discharging agent in textile printing	c	100		✓	✓	It is particularly used for white discharge printing on polyester, nylon and other synthetic fabrics.
<b>INGOLITE-3</b> Discharging agent in textile printing	c	100		✓	✓	It is used as a reducing agent in direct style printing of vat dyes. It is also used in colour discharge printing with vat dyes and white discharge printing on reactive dyed cellulosic fabrics.


## FINISHING

#### SILICONE SOFTENERS - MICRO EMULSIONS


<b>AQUACONC-ET</b> Hydrophilic concentrated softener	n	75	✓	✓	✓	It imparts excellent softening effect on all substrates. It is suitable for padding as well garment washing. Due to shear stability, it is also suitable in soft flow machine where liquor ratio is low.
<b>CARESOFT-1000</b> Concentrated, self-dispersible non-hydrophobic softener	n	65	✓	✓		It is shear stable and imparts surface smoothness on the treated fabrics. It is suitable for pad and exhaust application.
<b>CARESOFT-XC</b>  Hydrophilic blocked silicones for towels	n / wc	45	✓			It imparts soft, hydrophilic finish fast to home laundering. It also gives shear stability. It is ideal for terry towels, cotton knits and fabrics where good absorbency is required.
<b>FABSOFT (CONC)</b>  Economical hydrophobic silicone	n	75	✓	✓	✓	It imparts excellent body break to the finished fabric. It is suitable for continuous application and exhaust in garment machine with less shear force.
<b>SARASOFT-WL (CONC)</b>  Hydrophilic, non-yellowing, shear stable silicone softener	n / wc	40	✓	✓	✓	It imparts very good softness and hydrophilicity on the treated fabrics especially on terry towels. It is applicable by exhaust and continuous application.
<b>TERRYSOFT-SC (CONC)</b> Hydrophilic, blocked silicone for towels	c	40	✓			It is shear stable and imparts soft, hydrophilic finish. It is ideal for terry towels, cotton knits and fabrics where good absorbency is required. It is fast to home laundering.

#### SILICONE SOFTENERS - MACRO EMULSIONS


<b>AQUAFINISH-MA</b> Hydrophilic blocked silicone softener	n	50	✓	✓		It is shear stable, temperature stable and pH stable. It imparts super soft finish on treated substrates. It is non-yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust application.
<b>FLUID-828</b> Hydrophilic, Polydimethylsiloxane emulsion	n	60	✓	✓	✓	It is an oil-in-water, shear stable emulsion. It exhibits excellent wetting properties.
<b>HAYSOFT-860</b> Hydrophilic, polysiloxane softener	n / wc	60	✓	✓	✓	It is shear stable. It gives extra-ordinary smooth surface touch to terry towels, knits and woven substrates. It imparts soft and hydrophilic finish. It is suitable for pad and exhaust application.

PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
<b>HAYSOFT-641</b> Concentrated, self emulsifiable blocked silicone softener	c	75	✓	✓	✓	It imparts soft and fluffy handle to all substrates. It is easy to dilute as it does not require emulsifier for dilution. It is shear stable and gives superior hand feel compared to other blocked silicones.
<b>HYDROSOFT-654 40</b>  Hydrophilic silicone softener for terry towels and knits	n / wc	40	✓	✓		It imparts very good softness and hydrophilicity on the treated fabrics. It imparts excellent results on terry towels and cotton knits. It is shear stable and also applicable by padding application.
<b>MODSURF (CONC)</b> Concentrated, macro silicone	n	50	✓	✓		It imparts super soft effect on the treated substrates. It is non-yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust (in garment drum machine) application.


## SILICONE FLUIDS / OILS




<b>ELITESOFT-7414 (CONC)</b> Hydrophilic, self emulsifiable, blocked silicone oil	n	70	✓	✓		It is shear stable, temperature stable and pH stable. It imparts soft and fluffy handle to knit and woven substrates. It has excellent hydrophilic property. It is suitable for pad and exhaust application.
<b>FERMA-986</b>  Non-yellowing, Quaternary silicone fluid	–	80	✓	✓	✓	It can be easily emulsified into stable nano emulsion. Its emulsion is shear stable and pH stable and imparts hydrophilic, very soft, greasy peach handle with lubricity on all types of fibres.
<b>ULTIMOSOFT-Z (CONC)</b> Hydrophobic, Self emulsifiable, blocked silicone oil	n	60	✓	✓	✓	It is shear stable, temperature stable and pH stable. It imparts smooth and super slick handle to cotton, polyester, nylon, polyester / cotton and other synthetics fabrics and their blends. It is suitable for pad and exhaust application.
<b>HAYSOFT-SJC</b> Hydrophilic, easily emulsifiable blocked silicone oil	–	100	✓			It imparts soft, smooth and excellent hydrophilicity on the fabric. It is especially suitable for cotton knits and woven fabrics. It is stable to high shear force, wide pH range and wide temperature conditions. It is non-yellowing, hence suitable for whites as well as for pastel shades.
<b>HAYSOFT-PR</b> Blocked silicone softener	n	80	✓	✓	✓	It imparts soft and fluffy handle to all substrates. It is easily dilutable without use of emulsifier. It gives superior hand feel.




## ORGANIC SOFTENERS - FATTY ACID DERIVATIVES

<b>SUPERCONE-174</b> Hot water soluble in flakes form	c	100	✓		✓	It is non hydrophobic, imparts excellent softness on cotton yarns, knits, woven, wool, silk and garments. It is low yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust application.
<b>SUPERCONE-2100 (CONC)</b>  Cold water soluble in flakes form	c	100	✓		✓	It is low yellowing and concentrated product, suitable for exhaust as well as continuous application.
<b>SUPERCONE-NI</b> Hot water soluble in flakes form	n	100	✓	✓		It imparts excellent softness on cotton, viscose, polyester, acrylics and their blends. It is low yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust application.
<b>SUPERCONE-EQ</b> Concentrated esterquat in paste form	c	90	✓		✓	It imparts excellent surface smoothness on all substrates. It is soluble in luke warm water. It is low yellowing and suitable by pad and exhaust application.



## POLYURETHANE EMULSIONS

<b>TEXPEACH (CONC)</b>  Hydrophilic polyurethane based finishing agent	n / wc	60	✓	✓	✓	It imparts lofty finish with good drapability. It forms a 3-dimensional film on substrate. It improves resistance to pilling and abrasion and also improves crease recovery angle.
<b>TEXPEACH-100</b> Durable, non-yellowing, concentrated polyurethane based finishing agent	n	100	✓	✓	✓	It imparts lofty finish with good drapability by forming a 3-dimensional film on substrates. It improves resistance to pilling and abrasion and also improves crease recovery angle.

PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
POLYETHYLENE EMULISONS						
<b>SUPERNOL-PE (CONC)</b> Self-emulsifying, Polyethylene wax emulsion	n	100	✓			It is used for finishing of cotton bottom weights and denims for soft finish as well as to impart lubricity. It is recommended for finishing of cotton knits and cotton shirting to improve sewability, tensile and tear strength.
<b>SARASOFT-EP (CONC)</b> Polyethylene emulsion for cotton sheeting	n	40	✓			It imparts soft and bulky handle and improves tear and tensile strength of cellulosic and polyester fabric and their blends. It also improves sewability of the finished fabrics.
EXTENDER / CROSSLINKER FOR OIL, WATER & STAIN REPELLENT						
<b>ECOLINK (CONC)</b>  Extender for oil and water repellent	n	40	✓	✓	✓	Addition of Ecolink (Conc) improves durability to multiple home launderings.
MOISTURE MANAGEMENT FINISH						
<b>ESTOFEEL (CONC)</b>  Hydrophilic finishing agent with antistatic, soil resistant and soil release properties	n	100	✓	✓	✓	It helps to overcome static charge generation and improves wicking property. It is peculiarly suitable for synthetics. It passes AATCC 195:2012 (Moisture Management Test).
<b>MOISTURE-GUARD</b>  Concentrated organic hydrophilic finishing agent	n / wc	95	✓		✓	A unique, durable moisture management product that imparts rapid moisture absorption, evaporation and improved wicking thereby producing a cooling effect to wearer. It is peculiarly suitable for cellulose.
CHLORINE FASTNESS IMPROVER						
<b>SARADYE-PLE (CONC)</b> Chlorine fastness improver for cellulose	c	65	✓			A formaldehyde free chlorine fastness improver for fabrics dyed/printed with reactive dyes. It effectively works on sulphur and vat dyed / printed fabrics.
FLAME RETARDANTS						
<b>FLAMGUARD-DPS.</b> Durable flame retardant for polyester	n	95		✓	✓	It is halogen and formaldehyde free flame retardant. It is suitable for polyester, polyamide and polypropylene nonwoven fabrics. It passes NFPA-701, BS- 3119, BS-5852 etc.
<b>FLAMGUARD-CAB</b> Flame retardant for back coating	wa	45		✓	✓	It is a durable, halogen and formaldehyde free flame retardant for back coating application. It is suitable for upholstery and automotive textiles. It can also be applied by foam coating. It passes NFPA-701, BS 5852, vertical flame test etc.
<b>FLAMGUARD-EX (CONC)</b> Suitable for exhaust application	n	100		✓		It is a concentrated, durable, halogen and formaldehyde free flame retardant. It is suitable for home furnishing fabrics, and curtains. It passes NFPA-701, BS- 3119, and BS-5852 test methods. It can be applied during dyeing and thus leads to lower shade change.
<b>SARAFLAM-DUR</b> Durable Flame retardant for 100% Cotton fabric	n	80	✓			It is halogen free flame retardant for 100% Cotton fabric. It is durable up to 50 home launderings and highly suitable for work wear fabrics. It is applicable by padding and it passes ISO 15025, NFPA 701, BS 5852 and vertical flame test.
<b>SARAFLAM-PDR</b> Flame retardant for all substrates and blends in powder form	n	100	✓	✓	✓	It is a halogen free, non-durable flame retardant which is durable to dry cleaning.
ANTI-PILLING AGENT						
<b>CELLBIND-473</b> Versatile anti-pilling and seam slippage improver	n	45	✓	✓		It improves resistance to pilling and snagging. It is compatible with most of the finishes. It can be combined with any type of softener in finishing to carry out combine finishing treatment. It does not affect the hand feel of fabric.
ANTI-MICROBIAL AGENTS						
<b>SARAGUARD- 5700 (CONC)</b> Silane based, durable and non-leaching	c	100	✓	✓	✓	It passes ISO 18184: 2019, Antiviral test against enveloped and non-enveloped viruses. It is effective against broad spectrum of microbes such as <i>E.coli</i> , <i>S. aureus</i> , <i>MRSA</i> and <i>K. pneumoniae</i> . It is suitable by padding and exhaust application. It passes AATCC-100, JISL 1902, ISO 18184:2019 etc.

PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
<b>SARAGUARD-AM (CONC)</b> Silane based, durable and non-leaching	c	70	✓	✓	✓	It passes ISO 18184: 2019, Antiviral test against enveloped and non-enveloped viruses. It is effective against broad spectrum of microbes such as <i>E.coli</i> , <i>S. aureus</i> , <i>MRSA</i> and <i>K. pneumoniae</i> . It is suitable by padding and exhaust application. It passes AATCC-100, JISL 1902, ISO 18184:2019 etc.
<b>SARAGUARD-FL</b> Economical, durable and non-leaching	c	80	✓	✓	✓	It passes ISO 18184: 2019, Antiviral test against enveloped and non-enveloped viruses. It is effective against broad spectrum of microbes such as <i>E.coli</i> , <i>S. aureus</i> , <i>MRSA</i> and <i>K. pneumoniae</i> . It is suitable by padding and exhaust application. It passes AATCC-100, JISL 1902, ISO 18184:2019 etc.
<b>UV ABSORBER</b>						
<b>YUVI-CELL</b> Imparts UPF 40-50	n	50	✓		✓	It is a durable UV protecting agent. It can be applied to dyed fabrics with minimum shade change.
<b>STIFFENING AGENT</b>						
<b>SARASTIFF-GK</b>  Polymeric stiffening agent	n	50	✓	✓		It is suitable for collar interlining. It imparts stiff finish with good durability.
<b>PHENOLIC / THERMAL YELLOWING PREVENTERS</b>						
<b>QUENCH-APY</b>  Phenolic yellowing preventer	a	85	✓	✓	✓	A concentrated product to prevent phenolic yellowing of fabrics during storage in polyethylene bags or cardboard cartons. It is suitable for exhaust as well as continuous application.
<b>QUENCH-BT</b> Phenolic yellowing preventer	a	50	✓	✓	✓	It is a low foaming phenolic yellowing preventer for fabrics during storage, packed in polyethylene bags or cardboard cartons. It is suitable for exhaust as well as continuous application.
<b>SARASCOUR-RG (CONC)</b> Prevents yellowing due to heat setting	n	100		✓	✓	It is used to prevent yellowing of fabrics and knitted garments made from polyamide, lycra and their blends during heat setting. It is recommended for finishing of pale shades as well as for fabrics treated with optical brightening agents.
<b>TEAR STRENGTH IMPROVER</b>						
<b>TEARNON (CONC)</b> Tear strength improver for woven fabric	n	40	✓			Incorporation of Tearnon (Conc) in the normal finishing bath as well as in resin finishing bath improves the tear strength and sewability of the fabric.
<b>COATING AGENTS</b>						
<b>FABCOAT-5300</b> Soft Aliphatic Polyurethane	a	45	✓	✓	✓	It is non tacky. It is suitable for knife coating. The viscosity of the product can be adjusted by adding thickener. Addition of 2-3% cross linker is recommended to increase the wash fastness of the coating. It is suitable for coating outdoor wear fabrics.
<b>FABCOAT-PU 50 (TF)</b> Hybrid polyurethane	a	50	✓	✓	✓	It forms a medium hard film on the coated fabric. It is non tacky.
<b>FABCOAT-AR 100</b> Hard Acrylic binder	a	50	✓	✓	✓	It is suitable for knife coating. It forms a very hard film and so it is recommended to be used as an additive to adjust the hardness of the coating.
<b>GARMENT AUXILIARIES</b>						
<b>DENIZYME-WF</b> Water free and stone free bleaching of Indigo denim	n	100	✓			It is an auxiliary which enables water free and stone free bleaching of Indigo dyed denim and sulphur denim to obtain stone wash effects. The process enables saving of water, energy and time.
<b>NEUTRAZYME-573</b> Neutral cellulase enzyme in powder form, complete replacement of stone	n	100	✓			It is a high performance for achieving stone wash effect. Prevents staining of labels and pockets in denim garment. It is recommended to achieve high colour contrast finish and improved wash look or creation of new look. The process enables saving of water, energy and time.
<b>SARAKOL-BSI 667</b>  Anti-back staining agent in powder form	n	100	✓			It prevents re-deposition of indigo on pockets and denim itself during processing. It produces high contrasting washed effects during denim abrasions. It can be used as an effective washing-off agent to remove back stain from processed denim.
<b>BIO-PPN (CONC)</b> Bio-based, potassium permanganate neutraliser	n	100	✓			A bio-based, formaldehyde free and APEO free product lowering the TDS of effluent. It removes dirty brown stains of manganese oxide which are formed during PP bleaching and makes the denim bleached garment whiter and brighter. It also neutralizes active chlorine and eliminates chlorine odour after hypochlorite bleaching.



PRODUCT NAME & FUNCTION	IONIC NATURE	STRENGTH ±2%	SUBSTRATE			DESCRIPTION
			CO	PES	PA	
<b>SARABRITE</b>  Economical washing-off agent in powder form	n	100	✓			It is an economical cleaning and washing-off agent in powder form. It removes the unfixed indigo dye from the denim garment. The treated denim appears cleaner and brighter.
<b>INDOFIX-641</b>  Dye fixing agent for indigo dyed denim	c	50	✓			It is a dye fixing agent for indigo dyed and sulphur dyed denim garments. It can be applied after desizing and before stone washing or enzyme treatment. It is suitable for pad, exhaust and spray application.
<b>SARASOFT-OZ (CONC)</b> Softener for protecting against ozone fading	c	70	✓			It is a softener which gives protection to denim garments against ozone fading. It does not affect the seam slippage and light fastness of the treated fabric. It can be applied by exhaust as well as by padding method.
<b>HEFLOR-CI (CONC)</b> Metal corrosion inhibitor	n / wa	50	✓			It prevents the garment from staining caused by metal buttons/zippers during processing/dyeing. It inhibits the corrosion of metal accessories on the garment thereby preventing their stains on garment. It is stable from pH 3 to 13.
<b>SARAFINISH-OMP</b> Imparts fancy effects on denim	n	100	✓			A unique formulation to create special effects on denim and non-denim garments either alone or with thermocol balls.

*Ionic nature:* n = nonionic, c = cationic, a = anionic, wc = weakly cationic, wa = weakly anionic

*Substrate:* CO = Cotton, PES = Polyester, PA = Polyamide

 = certified product

# EXPORT PRODUCT LIST





PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	

## PRE-TREATMENT








### DESIZING AGENT


<b>DESIZE-GC</b> Alpha amylase enzyme	n	✓			High temperature stable, bacterial Alpha amylase enzyme for desizing of fabrics sized with starch and water soluble cellulose derivatives. It is suitable for exhaust, pad-roll and pad-batch methods.
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### WETTING AGENTS / DETERGENTS



<b>CELLED-R</b>  Concentrated, ultra low foaming wetting agent cum detergent	n	✓	✓	✓	It exhibits good rewetting properties and is suitable for scouring and bleaching.
<b>WETOL-DT</b>  Low foaming, solvent free wetting agent cum detergent	n	✓	✓		It is suitable for scouring and bleaching at boil. The low foaming characteristics of the product makes it suitable for jet dyeing machine even at low liquor ratio.
<b>LUTOL-AN</b>  High performance, low foaming detergent	a	✓	✓	✓	A high performance, low foaming detergent designed for scouring and bleaching of cotton and synthetic fibres in machines of high liquor turbulence. It is especially suitable for turquoise shade.
<b>KAYNOL-LSA</b> Lycra Scouring agent	n	✓	✓	✓	It is a solvent free wetting agent cum detergent. It removes stubborn oil, grease and wax dirt from lycra blend fabrics during scouring and bleaching. It is suitable for batch as well as continuous process.
<b>SARAKOL-NF</b>  / NF (CONC) Low foaming, wetting and de-aerating agent	a	✓	✓	✓	It is used for continuous as well as for exhaust application particularly in yarn package dyeing to achieve uniform dyeing. It can also be added in desizing bath in continuous batch process to improve pick-up. It is stable to high concentration of caustic.

### SCOURING & BLEACHING AGENTS

<b>UNIV-AIO</b>  All in one pre-treatment auxiliary	a	✓			It eliminates the use of caustic, wetting agent, stabilizer and sequestering agent during bleaching resulting in lower effluent load. It yields bleaching effects equivalent to that of conventional bleaching.
<b>UNIV-811</b>  All in one pre-treatment auxiliary that replaces caustic, stabilizer and sequestering agent in bleaching bath	n / wa	✓			It is a bleaching aid for combined scouring and bleaching of cotton and its blends. It reduces weight loss of cotton by 1-2% and hence more kilogram of material is achieved after bleaching. Very low Chemical Oxygen Demand (COD) of the drain bath hence minimizing the pollution potential.
<b>POLYSCOUR-7170</b>  Polyester scouring agent in acidic medium, scouring and dyeing in one bath	n		✓		It is very powerful scouring agent stable to high temperature and turbulence facilitating effective removal of various additives like spinning oil, acrylic sizes, lubricating oils etc. from the polyester fabrics thus imparting improved softness, water retention and dye uptake.
<b>ALKANOL-NP (MOD)</b>  Pre-treatment auxiliary to replace caustic, peroxide, stabilizer and sequestering agent in bleaching bath	a	✓			It is a no caustic and no peroxide bleaching agent. It is a single auxiliary which eliminates the use of caustic and peroxide during bleaching thereby reducing the Total Dissolved Solids (TDS) and Chemical Oxygen Demand (COD) load in the effluent. It also reduces weight loss.
<b>KETOPREP-LA (CONC)</b>  Low caustic, single stage scouring and bleaching agent; replaces wetting agent, stabilizer and sequestering agent	n / wa	✓			Bleached fabrics exhibit good absorbency and whiteness along with low weight loss and strength loss. The bleached yarn has lower co-efficient of friction, improved strength and reduced hairiness coupled with improved loom efficiency.
<b>HELOPREP-GC</b>  Low caustic, single stage scouring and bleaching agent; replaces wetting agent, stabilizer and sequestering agent	n / wa	✓			Bleached fabrics exhibit good absorbency and whiteness along with low weight loss and strength loss. The bleached yarn has lower co-efficient of friction, improved strength and reduced hairiness coupled with improved loom efficiency.
<b>ENVICARE-SC</b>  Clay based, Low foaming bleaching auxiliary	a	✓			It requires only caustic and peroxide for bleaching. It is recommended for the pre-treatment of viscose and other delicate fibres like bamboo and linen. It can be applied in package dyeing and soft flow/ overflow machines. It can also be used as a machine cleaning agent.

PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
<b>ESSBLEACH-BL</b> Low temperature (75-80°C) peroxide bleach bath activator	n	✓			It saves energy, time and total cost by catalysing reaction at lower temperature. It also reduces the strength loss and is suitable in exhaust process.
<b>TETRON.</b>  Oil and stubborn stain remover	n	✓	✓		It is an excellent stain remover for stubborn oil stains. It is suitable for jet, soft flow or jigger machines. It can also be used during polyester scouring process.

## SEQUESTERING AGENTS

<b>CHELATIN-SA</b>  Sugar acrylate based biodegradable sequestering agent	a	✓			An efficient sequestering agent which is applicable at all stages in wet processing. It works at broad pH range (4-11). It can also be used as a stabilizer in bleach bath. It acts as a dispersing (protective colloid) agent as well.
<b>SARAQUEST-W (CONC)</b>  Economical, calcium, magnesium and iron sequestering agent	n	✓	✓		It is suitable for combined scouring and bleaching operation. It prevents catalytic damage and pin hole marks during peroxide bleaching.
<b>IRONSTRONG (CONC)</b> Iron sequestering agent	n / wa	✓			It acts as a preferential chelating agent for iron impurities originating from textile goods or from water thereby preventing pin holes and catalytic damage of cotton.
<b>QUEST-AMP</b> ATMP based sequestering agent for scouring, bleaching and dyeing	n	✓			It is based on Amino Trimethylene Phosphonic Acid (ATMP) giving excellent chelation of metal ions. It can be incorporated in various chemical water treatment, detergents and soaps. It can also be used during bleaching of cellulosic and its blends. It can be used in dyeing as it does not affect dye shade.
<b>QUEST-DMP</b> DETMP based sequestering agent	n	✓			It is Diethylene Triamine Pentamethylene Phosphonic Acid (DETMP) based sequestering agent. It has a good peroxide stabilizing action and hence reduces the concentration of organic stabilizer in bleaching.
<b>QUEST-HP</b> Organophosphonate (HEDP) based sequestering agent	n / wa	✓	✓		It is Hydroxy Ethylidene Diphosphonic Acid (HEDP) based sequestering agent having high calcium, magnesium and iron chelation efficiency. It is mainly used in bleaching of cellulose and its blends. It prevents catalytic damage and pin holes.

## PEROXIDE STABILIZER

<b>SARASTABIL (CONC)</b> Peroxide stabilizer in powder form, Easily dilutable	a	✓	✓		It is a product with optimum stabilizing power even under adverse conditions of metal contaminants. It can be used in combined scouring and bleaching process. It is suitable in exhaust and continuous application.
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## PEROXIDE KILLER

<b>PEROXY-ALK (CONC)</b> Catalase enzyme based peroxide killer	n	✓			It eliminates residual peroxide over a wide range of pH and temperature at the end of bleaching or before reactive dyeing. Combined peroxide killing and bio polishing /dyeing can be carried out leading to conservation of energy, water and time.
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## CORE ALKALI NEUTRALISER

<b>SARACID-DV (X)</b> Core alkali neutraliser	n	✓			An organic formulation based on non-volatile ingredients to neutralize core alkali from cotton after an alkaline treatment. It does not lead to tendering of substrate and does not affect the shade and tone of the fabric.
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## DEFOAMERS




<b>SARADEFOAM</b>  Concentrated, Non-silicone based defoamer	n	✓	✓	✓	It is suitable for all types of textile processing in batch process. It is most suitable for exhaust dyeing.
<b>SARASIL-JS / JS (CONC)</b> Silicone based defoamer, stable to alkaline pH	a	✓	✓	✓	It is stable to shear force and high temperature. Due to its high shear stability, it does not lead to any objectionable deposits on machines or substrates.
<b>DEFOAMER-50</b> Concentrated, Silicone based defoamer	n	✓	✓	✓	It is suitable for all textile processing where foam control is essential e.g. jets, overflow dyeing machines, package dyeing machines, winches, jiggers and printing machines. It has high shear stability over wide pH range and wide temperature conditions.
<b>ANTI-FOAM-ASD</b> Silicone based defoamer, Alkaline pH stable	a	✓	✓	✓	It has excellent foam control. It does not lead to any objectionable deposits on equipments or substrates due to its high temperature and pH stability. It does not lead to silicone spots.
<b>DEFOAM-PEJ</b> 100% active antifoam	-	✓	✓	✓	It give outstanding antifoaming characteristics along with surfactant compatibility. It is stable to alkaline atmosphere. It does not give silicone spotting.

PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	

## BIO-POLISHING AGENTS




<b>BIOFEEL-PST (CONC)</b> Acid cellulase enzyme	n	✓	✓		An acid cellulase enzyme for bio polishing of cellulosic and cellulosic/polyester blends. It is also suitable for colour fading of denim garments.
<b>BIOPOL-N</b> Neutral cellulase enzyme stable to wide pH range	n	✓	✓		It is suitable for combined dyeing and bio polishing of cellulosic and its blends with polyester. It is suitable for colour fading of denim garments. It shows minimum strength loss and minimum shade changes.
<b>BIOPOL-PLUS (CONC)</b> Multicomponent enzyme	n	✓	✓		It is used for peroxide killing and bio-polishing in the same bath leading to conservation of water, time and energy.

## OPTICAL BRIGHTENING AGENTS


<b>CAREWHITE-BBU 250 %.</b> High affinity, Bluer tone, suitable for cellulosic	a	✓			It is available in powder form and is suitable for continuous application.
<b>SARAWHITE (CONC).</b>  High affinity, Neutral tone, suitable for cellulosic	a	✓		✓	It is in powder form. It gives good light fastness on cellulose. It is stable to peroxide as well as reductive bleach liquors hence combined bleaching and optical brightening can be carried out. It is highly suitable for exhaust application.
<b>SARAWHITE-COL.</b> High affinity, Bluer tone, suitable for cellulosic	a	✓			It is available in powder form and exhibits good wash fastness. It is highly suitable for exhaust application. It can be applied in one bath along with peroxide bleaching. It is durable to home launderings.
<b>SARAWHITE-CR</b> High affinity, Bluer tone suitable for acrylics	c				An optical brightening agent for acrylic fibres. It is suitable for exhaust application in gel dyeing process and chlorite bleaching. It can also be combined with cationic softeners. It is stable at acidic pH 2-5.
<b>TEXWHITE-2836.</b>  Redder tone, suitable for polyester	n		✓		An optical brightening agent for polyester and polyester blends. It is used to obtain dazzling whites and good sublimation fastness. It is suitable for exhaust as well as continuous application.
<b>TEXWHITE-A</b> Low temperature curable, Neutral tone, suitable for polyester	n		✓		An optical brightening agent for polyester and polyester blends. It shows good light fastness and is suitable for exhaust as well as continuous application.
<b>TEXWHITE-SFN.</b> Low temperature curable, medium to high affinity, Bluish-Violet tone suitable for polyester	n		✓		It is used to obtain brilliant whites and shows high sublimation fastness. It is suitable for exhaust as well as continuous application. It is stable to wide pH range (3-9). It exhibits stability to alkali, peroxide and electrolyte and also to reducing agents.
<b>WHITEX-2357.</b>  Bluer tone, suitable for polyester and its blends	n		✓		An optical brightening agent for polyester and polyester blends. It is used to obtain brilliant whites and shows high sublimation fastness. It is suitable for exhaust as well as continuous application. It is stable to peroxide bleaching.

# DYEING




## LEVELLING, DISPERSING & RETARDING AGENTS

<b>DYEWELL-002</b>  / <b>002 (CONC)</b>  Levelling agent for polyester	n		✓		It equalizes the strike rate of different classes of disperse dyes at high temperatures. It possesses good dispersing, migrating and levelling properties.
<b>SARAKOL-RDL</b>  / <b>RDL (CONC)</b> Low foaming, solubilising cum levelling agent for reactive dyeing	a	✓			It prevents dye agglomeration resulting in level dyeing in soft flow and package dyeing machines. It is ideal for sensitive shades like turquoise blue.
<b>NYLOLEVEL-606 (XC)</b> Levelling agent for polyamide, dyestuff affinity	n			✓	It is suitable for dyeing of nylon, wool and silk fabrics which are dyed with acid dyes. It possess excellent migration property which results into uniform and level dyeing. It is also suitable for metal complex dyestuffs.
<b>SUPERGEN-KMS</b> Levelling agent for wool and nylon	n			✓	It reduces strike rate of dyes particularly in light shades, which results in excellent penetration and level dyeing.
<b>RETARDER-ACR</b> Concentrated and economical acrylic retarding agent	c				It is a levelling agent for acrylic and its blend. It works by retarding mechanism and it also corrects faulty dyeing.



PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
<b>SARAGEN-SO</b> Dispersing agent for polyester dyeing in powder form	a		✓		It is used in dyeing and printing of polyester and its blends.
<b>SARALINE-FI / FI (CONC)</b> Versatile dispersing and emulsifying agent for all substrates	n	✓	✓	✓	It helps to stabilize the bath for better runnability under adverse conditions. It also helps in smooth running of the continuous bath, hence preventing roller build-up.
<b>COMPATIBILISER-766</b>  Bath compatibiliser	n	✓	✓	✓	It is a novel auxiliary used as a bath stabiliser when two chemicals of different ionic nature have to be used in one bath to get the desired results. This will help to avoid precipitation of chemicals.


## LUBRICATING & ANTICREASING AGENTS

<b>ANTICREASE (CONC)</b>  Economical, lubricating and crease preventing agent in powder form	a	✓	✓	✓	It forms a thin, uniform, protective coating around the fibre to lower the surface friction, thus minimizing the formation of durable creases during high temperature wet processing of polyester. It is suitable for batch process.
<b>SARACREASE-HG (CONC)</b>  Concentrated and low foaming crease preventing agent	a	✓	✓	✓	It is a low foaming lubricating agent which forms a thin and uniform protective coating around the fibre which lowers the surface friction and flexural rigidity thus minimizing fibre-to-fibre friction, fibre-to-metal friction and the formation of durable creases during high temperature wet-processing.
<b>YARNSOFT-FRS (CONC)</b>  Concentrated, yarn lubricating agent	n	✓	✓		A finishing agent for yarns to improve rewinding performance. It is suitable for exhaust as well as lick roll / kiss roll application. It improves lubricity and gliding properties of treated yarn. It also imparts antistatic properties.
<b>SARAWOOL</b> Wool protecting agent	n			✓	It can be used at all stages of processing of wool. It increases the weight of wool fabric. It reduces permanent setting of the wool especially at boil. It can be effectively used in winches and jets to protect it from creasing.


## SODA ASH SUBSTITUTE

<b>FEDA-SH (MOD)</b> Soda ash substitute	a	✓			Owing to its excellent buffering capabilities, it decreases the reactive dye hydrolysis and hence increases the extent of reactive dye fixation.
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## pH SLIDING AGENT

<b>ACIDON-PA</b>  pH sliding agent	n			✓	It controls the pH throughout dyeing with acid dyes and thus ensures uniform and reproducible dyeing for polyamides.
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## OLIGOMER REMOVERS

<b>ELIMINATOR-GLO</b>  / <b>GLO (CONC)</b> Oligomer remover and machine cleaning agent	a		✓		It is used in package dyeing to avoid oligomer deposition on the package and the machine.
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## ANTI-MIGRATING AGENT

<b>SARASOL-AMC</b>  Anti-migrating agent for continuous dyeing	a	✓	✓		It prevents migration of dyestuff during intermediate drying so that centre to selvedge and face-back variation is prevented. It can be easily washed-off.
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## REDUCTION CLEARING AGENT





<b>REDUCON-ACD (CONC)</b>  Reduction clearing agent which works in acidic medium	n		✓		It is added after polyester dyeing in the same bath for reduction clearing. It reduces process time and saves water and steam.
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## STRIPPING AGENTS

<b>FABSTRIP-NS</b>  Reactive dye stripping agent	n	✓			It is used for stripping of reactive dyes from cellulosic fabrics. It prevents the damage of lycra blended fabric unlike observed in conventional method of stripping using caustic and hydrosulphite.
<b>QUENCH-OBA</b> Removes OBA from fabric and machine	c	✓			It is a special auxiliary to remove traces of OBA from cotton rich substrates ensuring shade consistency. It is easily washed off and hence does not interfere in subsequent dyeing.

PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	


## WASHING-OFF AGENTS

<b>PARAKOL-YS</b>  Polymeric, economical dyebath conditioner and washing off agent	a	✓			It is high temperature stable washing off agent for reactive dyes. It also prevents precipitation of reactive dyes in presence of calcium and iron impurities. It is suitable for batch as well as continuous process.
<b>SARAKOL-PDR</b>  Dye bath conditioner and washing-off agent in powder form	a	✓			It is an acrylic copolymer based product having excellent dispersing action and sequestering property. It is readily dilutable with water. It is a good dye bath conditioner for package dyeing.
<b>SARAKOL-738</b>  Economical washing-off agent in powder form	a	✓	✓		It is recommended as washing-off agent for reactive dyes in batch as well as in continuous process. It possess good dispersing action. It does not form complex with dyes hence colour yield or tone of the fabric is not affected.
<b>SARAKOL-AD</b> Multifunctional auxiliary for Reactive dyeing	a	✓			It is a washing-off agent for reactive dyed and printed cellulosic fibres and their blends. It effectively works in presence of electrolyte. Its acts as a good dye bath conditioner for package dyeing.
<b>ITAWASH- LT (CONC)</b> Low temperature washing-off agent for reactive dyed/printed fabrics	c	✓			It reduces time, energy and water against conventionally used washing-off agent.
<b>SARAKOL-0472.</b> Single bath washing-off agent for reactive dyes, dark shades	a	✓			It is a single bath, high temperature washing off agent for fabrics dyed with reactive dyestuff for darker shades. It ensures easy removal of hydrolysed dyes and prevents re-deposition thereby improving overall fastness properties.
<b>WASHOFF-PC</b>  One step combined washing-off agent for polyester / cotton blend fabrics	n	✓	✓		It will remove the loosely held disperse dyestuff and unfixed reactive dyestuffs from polyester / cotton fabric and hence does not require intermediate reduction clearing which makes the process shorter and conserves energy.






## DYE TRANSFER INHIBITORS

<b>ARKOLAN-66</b> Dye transfer inhibitor or Anti-tinting agent	n	✓			It prevents re-deposition of dye on the fabric during washing off process of yarn dyed shirting and printed fabric. It can also be used as an additive in laundry formulations.
<b>ESTO-PVP</b> Concentrated product, prevents cross-staining of dyes	n	✓			It can be used in batch as well as in continuous process. Due to its good rinsing ability, it is easily washed-off and does not interfere in subsequent dye fixing or softening process.

## CATIONISING AGENT



<b>CATFIX-511 (N)</b>  Cationising agent for pigment dyeing for cellulose	c	✓			It is used to improve the exhaustion of pigments in pigment dyeing. It can also be as a pre-treatment auxiliary in pigment inkjet printing.
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## DYE FIXING AGENTS FOR REACTIVE & DIRECT DYES

<b>FIXANOL (CONC)</b>  Polyamine based concentrated formaldehyde free dye fixing agent	c	✓			It improves fastness of reactive and direct dyed fabric to washing, water and perspiration without adversely affecting the shade and light fastness.
<b>SARADYE-FN</b>  Polyamine based formaldehyde free dye fixing agent	c	✓			It improves fastness of reactive dyed fabric to washing, water and perspiration without adversely affecting the shade and light fastness. It is also suitable for direct dyes.
<b>FERAFIX-PDM</b> PolyDADMAC based formaldehyde free powder dye fixing agent	c	✓			It is a powder dye fixing agent for cellulosic fabrics dyed with anionic dyes viz., Reactive, Direct, Indigo and Sulphur dyestuffs.
<b>KATAFIX-BC</b>  PolyDADMAC based formaldehyde free dye fixing agent	c	✓			It is suitable for cellulose dyed with Reactive, Direct, Indigo and Sulphur dyestuffs. It improves the washing fastness, perspiration fastness and water fastness of dye fixed fabrics with low to negligible shade change.
<b>KATAFIX-RD</b>  Formaldehyde free dye fixing agent	c	✓			It improves fastness properties of reactive and direct dyed fabric with low to negligible shade change. It improves washing, water and perspiration fastness. It does not show deterioration in light fastness.
<b>ERGOFIX-ALS</b>  Formaldehyde free dye fixing agent for cellulose and denims	c	✓			It is formaldehyde free, dye fixing agent for cellulose dyed with Reactive, Direct, Indigo and Sulphur dyestuffs. It improves the washing fastness, perspiration fastness and water fastness of dye fixed fabrics.



PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	

#### DYE FIXING AGENTS FOR ACID/METAL COMPLEX DYES



<b>NYLOFIX-993</b>  Acid stable dye fixing agent in powder form	a			✓	It improves wet fastness properties of the dye fixed fabrics. It can also act as a reserving agent for polyamide/cellulosic blends.
<b>SARAFIX-NEW</b>  Acid stable dye fixing agent	a			✓	It improves wet fastness properties of the dye fixed fabrics. It can also be used as a reserving agent for polyamide / cellulosic blends. It is especially suitable for light and pastel shades.
<b>FLUOROFIX-877</b> Dye fixing agent for fluorescent acid dyes	a			✓	It improves the washing fastness and wet fastness properties viz., water contact fastness, sea water fastness and perspiration fastness of the dye fixed fabrics. It will not affect fluorescence of the dyed fabric.

## PRINTING AUXILIARIES

#### DIGITAL / INK-JET PRINTING


<b>DIGIPRINT-7146</b>  Pre-treatment auxiliary for reactive inks in powder form	a	✓			It is used in pre-treatment of cellulotics forming surface film on the fabric to get sharp prints. It gives consistent viscosity and pick up.
<b>DIGIPRINT-7146 (MOD)</b> Pre-treatment auxiliary for urea-free processing of reactive inks	a	✓			It is used in pre-treatment of cellulosic fabrics enabling urea free process of reactive digital printing. It delivers prints with sharp outline and improved colour value.
<b>DIGIPRINT-458</b> Pre-treatment auxiliary for reactive inks on cellulotics	a	✓	✓		It is a coating agent for pre-treatment processing especially for cotton and viscose. It locally increases the viscosity of print paste thereby prevents spreading of inks. It delivers level prints with sharp outlines. It has a film forming and adhesion property.
<b>SARASOL-PI</b> Pre-treatment auxiliary for pigment inks on cellulotics	c	✓			It is a pre-treatment coating agent which is applied by padding process for pigment digital printing.
<b>SARASOL-MB</b> Pre-treatment auxiliary for disperse inks on polyester	c		✓	✓	It is a pre-treatment agent applied in continuous process before Ink-Jet printing. It is concentrated, economical and easily dosable.
<b>SARASOL-1101</b>  Universal pre-treatment auxiliary for all inks on various substrates	a	✓	✓	✓	It is a pre-treatment auxiliary to be applied in the continuous process before Ink-Jet printing especially for all types of fabric with disperse, reactive and acid dyes. It delivers level prints with sharp outlines. It has a film forming and adhesion property.
<b>DIGIPRINT-773</b> Pre-treatment auxiliary for disperse inks on polyester	a		✓	✓	It is applied in pre-treatment process before Ink-Jet printing on polyester fabric. It locally increases the viscosity thereby prevents the spreading of ink. It delivers even prints with sharp outlines and improved colour value. It is ready to use, easily dosable economical product with consistent viscosity.

#### REACTIVE PRINTING

<b>REATHICK-612</b>  Hybrid thickener for reactive printing	a	✓			It exhibits prints with high brightness and levelness. It has excellent permeability with uniform colour yield. It gives much better and cleaner print than sodium alginate. It is suitable for both, flat bed and rotary screen printing.
<b>REATHICK-919</b> Non-alginate synthetic thickener	a	✓			It is a sodium alginate substitute for reactive dye printing on cellulosic and viscose substrates. It exhibits prints with high brightness, high brilliance and high permeability. It is suitable for both, flat and rotary screen printing.
<b>REATHICK-7917</b> Cost effective synthetic thickener	a	✓			It delivers prints with high brilliance and permeability with uniform colour yield. It gives much better and cleaner prints than sodium alginate. It is suitable for both flat bed and rotary screen printing.
<b>SUPER R SALT</b>  Mild oxidizing agent	a	✓			It is used during reactive dyeing and printing to protect the shade from reducing atmosphere during steaming.
<b>SARASOL-RS</b> Resist salt substitute in liquid form	n	✓	✓		It requires 1/3rd dosage of resist salt, preventing dyes from decomposition during dyeing and printing (steaming) by protecting from reducing atmosphere. It can be used in the dyebath and print paste.

PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	

## PIGMENT PRINTING





<b>CELLBIND-FF</b> Formaldehyde free, soft binder	a	✓	✓	✓	It imparts very good wash, rubbing fastness and resistance to abrasion. It gives very good brightness, soft and elastic handle to printed fabrics. It can also be used as a coating agent to impart soft feel to the fabric.
<b>CELLBIND-7838</b> Medium hard acrylic binder	a	✓	✓	✓	It has excellent pigment loading characteristics, alkali resistance and good durability to washing and dry cleaning. It gives excellent wash fastness. It can also be used in coating.
<b>CELLBIND-PD</b> Formaldehyde free binder for pigment dyeing	a	✓	✓	✓	It gives very good brightness and soft handle to dyed fabrics. It imparts very good rubbing fastness. It can also be used as a coating agent to impart soft feel to the fabric.
<b>SYNTHICK-P 328</b> Synthetic thickener for pigment printing	a	✓	✓	✓	It disperses readily in water. It can also be used as thickener for preparation of coating recipe.
<b>CROSSPRINT-CL / CL (CONC).</b>  Formaldehyde free crosslinking agent for pigment printing	n	✓	✓	✓	It enhances fastness properties especially wet rubbing fastness of printed fabric.
<b>TEXPRINT-FF</b> Formaldehyde free crosslinking agent for pigment printing	a	✓	✓	✓	It enhances the wet rubbing fastness properties of pigment printed fabrics.
<b>SARAPRINT-AC</b> Melamine formaldehyde based resin	n	✓	✓	✓	It is added to a pigment printing paste to enhance the scrub fastness and wet rubbing fastness of pigment printed fabric. It can also be used for finishing of interlining fabrics to impart a durable and stiff handle. It is also used as cross linker in coating recipe.
<b>TEXPRINT-PP</b> Silicone softener for pigment printing	n	✓			It is to be added in the print paste. It imparts soft and dry handle to the printed fabrics. It does not impair the fastness properties of pigment printed fabrics.

## OTHER PRINTING AUXILIARIES



<b>FABPRINT-PES</b> Synthetic thickener for disperse printing	a		✓		It is easy to handle and gives lump free paste. It imparts very good colour yield with sharpness.
<b>REDUCIT-ZS</b> Discharging agent in textile printing	c		✓	✓	It is particularly used for white discharge printing on polyester, nylon and other synthetic fabrics.
<b>INGOLITE-3</b> Discharging agent in textile printing	c		✓	✓	It is used as a reducing agent in direct style printing of vat dyes. It is also used in colour discharge printing with vat dyes and white discharge printing on reactive dyed cellulosic fabrics.

# FINISHING




## SILICONE SOFTENERS - MICRO EMULSIONS

<b>AQUACONC-ET</b> Hydrophilic concentrated softener	n	✓	✓	✓	It imparts excellent softening effect on all substrates. It is suitable for padding as well garment washing. Due to shear stability, it is also suitable in soft flow machine where liquor ratio is low.
<b>CARESOFT-1000</b> Concentrated, self-dispersible non-hydrophobic softener	n	✓	✓		It is shear stable and imparts surface smoothness on the treated fabrics. It is suitable for pad and exhaust application.
<b>CARESOFT-HF</b>  Hydrophobic softener	n	✓			It imparts good surface softness on knits, shirting and bottom weight fabrics. It gives excellent results on cotton woven, P/V suiting and garments. It is suitable for pad and exhaust (in garment drum machine) application.
<b>CARESOFT-XC</b>  Hydrophilic blocked silicones for towels	n / wc	✓			It imparts soft, hydrophilic finish fast to home laundering. It also gives shear stability. It is ideal for terry towels, cotton knits and fabrics where good absorbency is required.
<b>DELTAISOFT-6805</b> Hydrophobic blocked silicone softener	c	✓	✓		It is shear stable and imparts high level of inner softness for all substrates. It gives outstanding results on mink/fleece and raised fabric. It is suitable for pad and exhaust application.
<b>FABSOFT-LC</b>  / (CONC)  Economical hydrophobic silicone	n	✓	✓	✓	It imparts excellent body break to the finished fabric. It is suitable for continuous application and exhaust in garment machine with less shear force.




PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
<b>POLYSOFT-55</b>  Hydrophobic, blocked silicone softener	c	✓	✓	✓	It imparts very good surface smoothness and body break and reduces caustic in weight reduction process. It is suitable in exhaust in soft flow as well as in continuous application.
<b>SARASOFT-WL (CONC)</b>  Hydrophilic, non-yellowing, shear stable silicone softener	n / wc	✓	✓	✓	It imparts very good softness and hydrophilicity on the treated fabrics especially on terry towels. It is applicable by exhaust and continuous application.
<b>TERRYSOFT-SC (CONC)</b> Hydrophilic, blocked silicone for towels	c	✓			It is shear stable and imparts soft, hydrophilic finish. It is ideal for terry towels, cotton knits and fabrics where good absorbency is required. It is fast to home laundering.


#### SILICONE SOFTENERS - MACRO EMULSIONS

<b>AQUAFINISH-MA</b> Hydrophilic blocked silicone softener	n	✓	✓		It is shear stable, temperature stable and pH stable. It imparts super-soft finish on treated substrates. It is non-yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust application.
<b>FLUID-828</b> Hydrophilic, Polydimethylsiloxane emulsion	n	✓	✓	✓	It is an oil-in-water, shear stable emulsion. It exhibits excellent wetting properties.
<b>HAYSOFT-860</b> Hydrophilic, polysiloxane softener	n / wc	✓	✓	✓	It is shear stable. It gives extra-ordinary smooth surface touch to terry towels, knits and woven substrates. It imparts soft and hydrophilic finish. It is suitable for pad and exhaust application.
<b>HAYSOFT-641</b> Concentrated, self emulsifiable blocked silicone softener	c	✓	✓	✓	It imparts soft and fluffy handle to all substrates. It is easy to dilute as it does not require emulsifier for dilution. It is shear stable and gives superior hand feel compared to other blocked silicones.
<b>HYDROSOFT-654</b>  / <b>654 40</b>  Hydrophilic silicone softener for terry towels and knits	n / wc	✓	✓		It imparts very good softness and hydrophilicity on the treated fabrics. It imparts excellent results on terry towels and cotton knits. It is shear stable and also applicable by padding application.
<b>MODSURF (CONC)</b> Concentrated, macro silicone	n	✓	✓		It imparts super soft effect on the treated substrates. It is non-yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust (in garment drum machine) application.
<b>MODSURF-SS</b>  Economical silicone softener	n	✓	✓		It imparts super soft effect on the treated substrates. It is non-yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust (in garment drum machine) application.

#### SILICONE FLUIDS / OILS



<b>ELITESOFT-7414 (CONC)</b> Hydrophilic, self emulsifiable, blocked silicone oil	n	✓	✓		It is shear stable, temperature stable and pH stable. It imparts soft and fluffy handle to knit and woven substrates. It has excellent hydrophilic property. It is suitable for pad and exhaust application.
<b>FERMA-986</b>  Non-yellowing, Quaternary silicone fluid	–	✓	✓	✓	It can be easily emulsified into stable nano emulsion. Its emulsion is shear stable and pH stable and imparts hydrophilic, very soft, greasy peach handle with lubricity on all types of fibres.
<b>ULTIMOSOFT-Z (CONC)</b> Hydrophobic, self emulsifiable, blocked silicone oil	n	✓	✓	✓	It is shear stable, temperature stable and pH stable. It imparts smooth and super slick handle to cotton, polyester, nylon, polyester / cotton and other synthetics fabrics and their blends. It is suitable for pad and exhaust application.
<b>HAYSOFT-SJC</b> Hydrophilic, easily emulsifiable blocked silicone oil	–	✓			It imparts soft, smooth and excellent hydrophilicity on the fabric. It is especially suitable for cotton knits and woven fabrics. It is stable to high shear force, wide pH range and wide temperature conditions. It is non-yellowing, hence suitable for whites as well as for pastel shades.
<b>HAYSOFT-PR</b> Blocked silicone softener	n	✓	✓	✓	It imparts soft and fluffy handle to all substrates. It is easily dilutable without use of emulsifier. It gives superior hand feel.

#### ORGANIC SOFTENERS - FATTY ACID DERIVATIVES



<b>SUPERCONE-174</b> Hot water soluble in flakes form	c	✓		✓	It is non hydrophobic, imparts excellent softness on cotton yarns, knits, woven, wool, silk and garments. It is low yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust application.
<b>SUPERCONE-2100 (CONC)</b>  Cold water soluble in flakes form	c	✓		✓	It is low yellowing and concentrated product, suitable for exhaust as well as continuous application.

PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
<b>SUPERCONE-NI</b> Hot water soluble in flakes form	n	✓	✓		It imparts excellent softness on cotton, viscose, polyester, acrylics and their blends. It is low yellowing, hence suitable for whites as well as for pastel shades. It is suitable for pad and exhaust application.
<b>SUPERCONE-EQ</b> Concentrated esterquat in paste form	c	✓		✓	It imparts excellent surface smoothness on all substrates. It is soluble in luke warm water. It is low yellowing and suitable by pad and exhaust application.

### POLYURETHANE EMULSIONS






<b>SARAPEACH-MR</b>  Durable, soft and peach skin effect with very good drape	n	✓	✓		A self-cross linking polymeric finishing agent that imparts softness and fullness. It offers special finishes for high value cotton shirting and polyester dressing material.
<b>TEXPEACH (CONC)</b>  Hydrophilic polyurethane based finishing agent	n / wc	✓	✓	✓	It imparts lofty finish with good drapability. It forms a 3-dimensional film on substrate. It improves resistance to pilling and abrasion and also improves crease recovery angle.
<b>TEXPEACH-100</b> Durable, non-yellowing, concentrated polyurethane based finishing agent	n	✓	✓	✓	It imparts lofty finish with good drapability by forming a 3-dimensional film on substrates. It improves resistance to pilling and abrasion and also improves crease recovery angle.
















### POLYETHYLENE EMULSIONS

<b>SARALUBE-JW</b>  Sewability improver	c	✓	✓	✓	It can be applied by exhaust application on woven, knit and garment. It is also suitable for raising application. Due to its low foaming characteristics, it can be applied on jet dyeing machines without any difficulty.
<b>SUPERNOL-PE (CONC)</b> Self-emulsifying Polyethylene wax emulsion	n	✓			It is used for finishing of cotton bottom weights and denims for soft finish as well as to impart lubricity. It is recommended for finishing of cotton knits and cotton shirting to improve sewability, tensile and tear strength.
<b>SARASOFT-EP</b>  / <b>EP (CONC)</b> Polyethylene emulsion for cotton sheeting	n	✓			It imparts soft and bulky handle and improves tear and tensile strength of cellulosic and polyester fabric and their blends. It also improves sewability of the finished fabrics.

### OIL, WATER & STAIN REPELLENTS

#### C6 FLUOROCARBON

<b>CAREGUARD-314</b>  No roller build up and excellent water repellency	n		✓	✓	It imparts best results on synthetic fabrics. It is an ideal product for fabrics which are to be coated. It can be applied by continuous, foam and spray technique. It passes Bundesmann test.
<b>CAREGUARD-66 (NEW)</b>  Durable oil and water repellent	n / wc	✓	✓	✓	It imparts very good oil and water repellency especially on cellulosic substrates. It can be applied by continuous, foam and spray technique.
<b>CAREGUARD-7080</b> Cost effective	n / wc	✓	✓	✓	It imparts average oil and very good water repellency especially on cellulosic substrates.
<b>CAREGUARD-7321</b> High oil and solvent repellency	n / wc	✓	✓	✓	It imparts excellent oil, water and solvent repellency. It is highly suitable for pigment printed and aramid fabrics. It passes Gutter Test, ISO 6530:2005.
<b>CAREGUARD-7653</b> Suitable for low temperature curing	n / wc	✓	✓	✓	It imparts excellent oil, water and solvent repellency. It is highly suitable for nonwovens and polypropylene fabrics.
<b>CAREGUARD-8616</b> Cost effective	n / wc	✓	✓	✓	It imparts good water oil and water repellency. It is durable to multiple home launderings.
<b>CAREGUARD-823 (CONC) NEW</b> Non-ionic, no roller build up and excellent oil repellency	n	✓	✓	✓	It imparts excellent results on all substrates. It is highly suitable for pigment printed, aramid and taffeta fabrics.
<b>CAREGUARD-LTH</b>  No roller build up and excellent water repellency	n		✓	✓	It imparts best results on synthetic fabrics. It is an ideal product for fabrics which are to be coated. It can be applied by continuous, foam and spray technique. It passes Bundesmann test.
<b>CAREGUARD-OR 359</b>  High oil and solvent repellency	n / wc	✓	✓	✓	It imparts excellent oil, water and solvent repellency. It is highly suitable for pigment printed and aramid fabrics. It passes Gutter Test, ISO 6530:2005.
<b>CAREGUARD-OR 606</b>  High oil and solvent repellency	n	✓	✓	✓	It imparts excellent oil, water and solvent repellency. It is highly suitable for pigment printed and aramid fabrics. It passes Gutter Test, ISO 6530:2005. Its performance is close to C8 based products.


PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
<b>CAREGUARD-SV</b>  Economical, excellent durability	n / wc	✓	✓	✓	It is a concentrated oil and water repellent. It can be applied to nonwoven substrates by continuous, foam and spray technique.
<b>ECOGUARD-786</b>  Very good oil repellency	n / wc	✓	✓	✓	It is a durable C6 based oil water repellent which gives performance close to C8 chemistry.
<b>FLUORINE FREE WATER REPELLENTS</b>					
<b>ECOGUARD-NEW</b>  High Performance durable water repellent	n / wc	✓	✓	✓	It imparts very good water repellency especially on cellulosic substrates. It is also durable to multiple home launderings after Air-Line-Drying and Tumble Drying. The performance of It is better than the conventional paraffin wax and acrylate based products.
<b>ECOGUARD-6025</b>  Economical fluorine free water repellent	n / wc	✓	✓	✓	It is a fluorine free speciality product for imparting very good water repellency especially on cellulosic substrates.
<b>ECOGUARD-SYN (CONC)</b>  Fluorine free water repellent	n / wc	✓	✓	✓	It is a fluorine free speciality product for imparting very good water repellency especially on synthetic fabrics.
<b>EXTENDER / CROSSLINKER FOR OIL, WATER &amp; STAIN REPELLENT</b>					
<b>ECOLINK (CONC)</b>  Extender for oil and water repellent	n	✓	✓	✓	Addition of Ecolink (Conc) improves durability to multiple home launderings.
<b>RUBBING FASTNESS IMPROVERS</b>					
<b>RUBFAST-716</b>  Dry and wet rubbing fastness improver	wc / amp	✓			It improves rubbing fastness by 1.5-2.0 units on direct, reactive, indigo and pigment dyed fabrics. It can be applied by dry-on-wet and wet-on-wet application.
<b>ZOROFAST-FMD</b>  Dry and wet rubbing fastness improver	wc / amp	✓			It improves rubbing fastness by 1.5-2.0 units on direct, reactive, sulphur, indigo and pigment dyed fabrics. It can be applied by dry-on-wet and wet-on-wet application.
<b>RUBFAST-116</b>  Dry and wet rubbing fastness improver	n / wc	✓			It improves rubbing fastness by 1.5-2.0 units on direct, reactive, sulphur, indigo and pigment dyed fabrics. It can be applied by dry-on-wet and wet-on-wet application.
<b>RUBFAST-467</b>  Dry and wet rubbing fastness improver	wc / amp	✓			It improves rubbing fastness by 1.5-2.0 units on direct, reactive, sulphur, indigo and pigment dyed fabrics. It can be applied by dry-on-wet and wet-on-wet application.
<b>MOISTURE MANAGEMENT FINISH</b>					
<b>ESTOFEEL (CONC)</b>  Hydrophilic finishing agent with antistatic, soil resistant and soil release properties	n	✓	✓	✓	It helps to overcome static charge generation and improves wicking property. It is peculiarly suitable for synthetics. It passes AATCC 195:2012 (Moisture Management Test).
<b>MOISTURE-GUARD</b>  Concentrated organic hydrophilic finishing agent	n / wc	✓		✓	A unique, durable moisture management product that imparts rapid moisture absorption, evaporation and improved wicking thereby producing a cooling effect to wearer. It is peculiarly suitable for cellulosics.
<b>COLOUR DEEPENING AGENTS</b>					
<b>SARABLOOM-SL</b>  Imparts neutral to redder tone	n / wc	✓	✓	✓	A colour deepening agent to obtain exceptionally high colour depth with neutral to redder tone on all substrates peculiarly on cellulosics. It also imparts good softness on the finished fabrics.
<b>SARABLOOM-2951</b>  Imparts bluer tone	wc		✓	✓	A colour deepening agent developed for fabrics dyed with blacks and navy's. It exhibits exceptionally high colour depth on the fabric imparting bluer tone.
<b>TEXBRIGHT-DP</b> Imparts redder tone	wc		✓	✓	A colour deepening agent to enhances the depth of shade of the finished fabrics. It is suitable for all colours.
<b>SARABLOOM-EX</b> Colour deepening agent suitable by exhaust application	c	✓	✓	✓	It suitable for blacks, medium and dark dyed fabrics. It is suitable for polyester, polyamide and cellulosic fabrics, since it is shear stable, it is suitable in HTHP machines, soft flow, package dyeing, jigger winch and drum washer machines.
<b>CHLORINE FASTNESS IMPROVERS</b>					
<b>SARADYE- PLE</b>  / <b>PLE (CONC)</b> Chlorine fastness improver for cellulosics	c	✓			A formaldehyde free, chlorine fastness improver for fabrics dyed/printed with reactive dyes. It effectively works on sulphur and vat dyed / printed fabrics.

PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
<b>SARADYE-429 (MOD)</b>  Chlorine fastness improver for polyamide	n			✓	Developed for fabrics dyed with acid and metal complex dyes. It does not affect the hand feel of the fabric.


## FLAME RETARDANTS

<b>FLAMGUARD-DPS.</b> Durable flame retardant for polyester	n		✓	✓	It is halogen and formaldehyde free flame retardant. It is suitable for polyester, polyamide and polypropylene non woven fabrics. It passes NFPA-701, BS-3119, BS-5852 etc.
<b>FLAMGUARD-CAB</b> Flame retardant for back coating	wa		✓	✓	It is a durable, halogen and formaldehyde free flame retardant for back coating application. It is suitable for upholstery and automotive textiles. It can also be applied by foam coating. It passes NFPA-701, BS-5852, vertical flame test etc.
<b>FLAMGUARD-EX (CONC)</b> Suitable for exhaust application	n		✓		It is a concentrated, durable, halogen and formaldehyde free flame retardant. It is suitable for home furnishing fabrics and curtains. It passes NFPA-701, BS-3119 and BS-5852 test methods. It can be applied during dyeing and thus leads to lower shade change.
<b>SARAFLAM-DUR</b> Durable Flame retardant for 100% Cotton fabric	n	✓			It is halogen free flame retardant for 100% Cotton fabric. It is durable up to 50 home launderings and highly suitable for work wear fabrics. It is applicable by padding and it passes ISO 15025, NFPA-701, BS-5852 and vertical flame test.
<b>SARAFLAM-PDR</b> Flame retardant for all substrates and blends in powder form	n	✓	✓	✓	It is a halogen free, non-durable flame retardant which is durable to dry cleaning.
<b>SARAFLAM-CD</b> Non-Durable flame retardant for polyester	n		✓		It is a halogen free flame retardant for which is durable to dry cleaning.

## ANTI-PILLING AGENTS

<b>HELAFIN-618</b> Anti-pilling agent	c	✓	✓		It is an anti-pilling finishing agent for cotton, polyester and their blends. It improves the resistance of treated fabric to pilling and snagging. It can be applied by exhaust as well as pad application.
<b>CELLBIND-473</b> Versatile anti-pilling and seam slippage improver	n	✓	✓		It improves resistance to pilling and snagging. It is compatible with most of the finishes. It can be combined with any type of softener in finishing to carry out combine finishing treatment. It does not affect the hand feel of fabric.
<b>HELAFIN-42</b>  Seam slippage improver with soft hand feel	a	✓			It improves resistance to snagging and reduces the tendency of seam slippage. It also acts as an anti-slipping agent for fibres to avoid yarn slippage.
<b>TEXPEACH-RSL</b> Cationic polyurethane based anti-pilling agent	c	✓	✓	✓	It is effective in giving anti-pilling properties through cross-linking. It is highly suitable for linen fabrics.

## ANTI-MICROBIAL AGENTS





<b>SARAGUARD- 5700</b>  / <b>5700 (CONC)</b> Silane based, durable and non-leaching	c	✓	✓	✓	It passes ISO 18184: 2019, Antiviral test against enveloped and non-enveloped viruses. It is effective against broad spectrum of microbes such as <i>E.coli</i> , <i>S. aureus</i> , <i>MRSA</i> and <i>K. pneumoniae</i> . It is suitable by padding and exhaust application. It passes AATCC-100, JISL 1902, ISO 18184:2019 etc.
<b>SARAGUARD-AM (CONC)</b> Silane based, durable and non-leaching	c	✓	✓	✓	It passes ISO 18184: 2019, Antiviral test against enveloped and non-enveloped viruses. It is effective against broad spectrum of microbes such as <i>E.coli</i> , <i>S. aureus</i> , <i>MRSA</i> and <i>K. pneumoniae</i> . It is suitable by padding and exhaust application. It passes AATCC-100, JISL 1902, ISO 18184:2019 etc.
<b>SARAGUARD-FL</b> Economical, durable and non-leaching	c	✓	✓	✓	It passes ISO 18184: 2019, Antiviral test against enveloped and non-enveloped viruses. It is effective against broad spectrum of microbes such as <i>E.coli</i> , <i>S. aureus</i> , <i>MRSA</i> and <i>K. pneumoniae</i> . It is suitable by padding and exhaust application. It passes AATCC-100, JISL 1902, ISO 18184:2019 etc.

## ANTI-FUNGAL AGENT

<b>ZOROGUARD-ZP</b> Zinc pyrithione based, leaching	n / wa	✓	✓	✓	It exhibits antifungal as well as antibacterial activity. It is effective against broad spectrum of microbes. It passes AATCC-30, AATCC-147 and AATCC-100 and JISL 1902 test methods. It also shows excellent anti-viral properties.
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PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
MOSQUITO / INSECT REPELLENTS					
REPELLO-MSQ Permethrin based	a	✓	✓	✓	It is a contact based durable mosquito repellent available in micro dispersed form. It is recommended for cellulosic and other substrates. It is suitable for exhaust as well as padding application.
SARAGUARD-MOSQ DEET (N,N-diethyl meta toluamide) based	n	✓	✓	✓	A micro-encapsulated durable mosquito repellent. It keeps mosquitoes away without then touching the surface of the finished fabric. It is suitable by padding as well as exhaust application. It passes WHO Cone Bioassay test.
SARAGUARD-AP Permethrin based moth and beetle proofing agent	n	✓	✓	✓	It is a durable moth proofing agent developed for the fabrics which are meant for outerwear, sportswear, military fabrics, tents etc. Saraguard-AP treated garments have a knock-down effect on moths and other flying insects.
UV ABSORBERS					
SARAFAST-UV 325 Triazine based UV absorber	n		✓	✓	It reduces the fibre damage due to photo chemical degradation. It has very good dispersion stability and hence it is suitable in exhaust method of application.
YUVI-493 Light fastness improver	a		✓	✓	It reduces the fibre damage due to photo chemical degradation. It has very good dispersion stability and hence it is suitable in exhaust method of application.
YUVI-CELL Imparts UPF 40-50	n	✓		✓	It is a durable UV protecting agent. It can be applied to dyed fabrics with minimum shade change.
EASY CARE FINISH/DURABLE PRESS FINISH					
SARALINK-FF Formaldehyde free resin	n	✓			It imparts easy care finish with very good DP rating of the fabric. It can be applied at wide temperature range.
SARALINK-ULF Ultra low formaldehyde resin	n	✓	✓		It imparts easy care finish with good DP rating. It can also be applied by soaking or spray technique. It is used to produce wrinkle free, durable press and wash and wear finish on the fabrics.
STIFFENING AGENT					
SARASTIFF-GK  Polymeric stiffening agent	n	✓	✓		It is suitable for collar interlining. It imparts stiff finish with good durability.
PHENOLIC / THERMAL YELLOWING PREVENTERS					
QUENCH-APY  Phenolic yellowing preventer	a	✓	✓	✓	A concentrated product to prevent phenolic yellowing of fabrics during storage in polyethylene bags or cardboard cartons. It is suitable for exhaust as well as continuous application.
QUENCH-BT Phenolic yellowing preventer	a	✓	✓	✓	It is a low foaming phenolic yellowing preventer for fabrics during storage, packed in polyethylene bags or cardboard cartons. It is suitable for exhaust as well as continuous application.
SARASCOUR-RG (CONC) Prevents yellowing due to heat setting	n		✓	✓	It is used to prevent yellowing of fabrics and knitted garments made from polyamide, lycra and their blends during heat setting. It is recommended for finishing of pale shades as well as for fabrics treated with optical brightening agents.
TEAR STRENGTH IMPROVER					
TEARNON (CONC) Tear strength improver for woven fabric	n	✓			Incorporation of Tearnon (Conc) in the normal finishing bath as well as in resin finishing bath improves the tear strength and sewability of the fabric.
COATING AGENTS					
FABCOAT-5300 Soft Aliphatic Polyurethane	a	✓	✓	✓	It is non tacky. It is suitable for knife coating. The viscosity of the product can be adjusted by adding thickener. Addition of 2-3% cross linker is recommended to increase the wash fastness of the coating. It is suitable for coating outdoor wear fabrics.
FABCOAT-PU 50 (TF) Hybrid Polyurethane	a	✓	✓	✓	It forms a medium hard film on the coated fabric. It is non tacky.
FABCOAT-AR 100 Hard Acrylic binder	a	✓	✓	✓	It is suitable for knife coating. It forms a very hard film and so it is recommended to be used as an additive to adjust the hardness of the coating.



PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
GARMENT AUXILIARIES					
<b>DENIZYME-WF</b> Water free and stone free bleaching of Indigo denim	n	✓			It is an auxiliary which enables water free and stone free bleaching of Indigo dyed denim and sulphur denim to obtain stone wash effects. The process enables saving of water, energy and time.
<b>NEUTRAZYME-573</b> Neutral cellulase enzyme in powder form, complete replacement of stone	n	✓			It is a high-performance for achieving stone wash effect. Prevents staining of labels and pockets in denim garment. It is recommended to achieve high colour contrast finish and improved wash look or creation of new look. The process enables saving of water, energy and time.
<b>SARAKOL-BSI 667</b>  Anti-back staining agent in powder form	n	✓			It prevents re-deposition of indigo on pockets and denim itself during processing. It produces high contrasting washed effects during denim abrasions. It can be used as an effective washing-off agent to remove back stain from processed denim.
<b>SARABLEACH-BBA</b> Bleach bath activator	n / wc	✓			It is used in bleaching of denim garments and blends with lycra, tencel. Concentration of sodium hypochlorite can be reduced by almost 50% without affecting the end results. It is also suitable for localized bleached effect similar to sand blasting without damaging the fabric.
<b>BIO-PPN (CONC)</b> Bio-based, potassium permanganate neutraliser	n	✓			A bio-based, formaldehyde free and APEO free product lowering the TDS of effluent. It removes dirty brown stains of manganese oxide which are formed during potassium permanganate bleaching and makes the denim bleached garment whiter and brighter. It also neutralizes active chlorine and eliminates chlorine odour after hypochlorite bleaching.
<b>SARABRITE</b>  Economical washing-off agent in powder form	n	✓			It is an economical cleaning and washing-off agent in powder form. It removes the unfixed indigo dye from the denim garment. The treated denim appears cleaner and brighter.
<b>INDOFIX-641</b>  Dye fixing agent for indigo dyed denim	c	✓			It is a dye fixing agent for indigo dyed and sulphur dyed denim garments. It can be applied after desizing and before stone washing or enzyme treatment. It is suitable for pad, exhaust and spray application.
<b>SARASOFT-OZ</b>  / <b>SARASOFT-OZ (CONC)</b> Softener for protecting against ozone fading	c	✓			It is a softener which gives protection to denim garments against ozone fading. It does not affect the seam slippage and light fastness of the treated fabric. It can be applied by exhaust as well as by padding method.
<b>DENIBLOCK</b> Resist effect on Indigo dyed denim fabric	n	✓			It achieves resist effect on Indigo dyed denim fabric. Fabric portion treated with Deniblock will resist the potassium permanganate bleaching action. The treated portion will remain unaffected (appears original blue) whereas the rest portion will appear lighter as a result of bleaching.
<b>HEFLOR-CI (CONC)</b> Metal corrosion inhibitor	n / wa	✓			It prevents the garment from staining caused by metal buttons/zippers during processing/dyeing. It inhibits the corrosion of metal accessories on the garment thereby preventing their stains on garment. It is stable from pH 3 to 13.
<b>SARAFINISH-OMP</b> Imparts fancy effects on denim	n	✓			A unique formulation to create special effects on denim and non-denim garments either alone or with thermocol balls.

**Ionic nature:** n = nonionic, c = cationic, a = anionic, wc = weakly cationic, wa = weakly anionic, amp = amphoteric

**Substrate:** CO = Cotton, PES = Polyester, PA = Polyamide


 = certified product

# SPECIAL PRODUCTS FOR POLYAMIDE

PRODUCT NAME & FUNCTION	IONIC NATURE	DESCRIPTION
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## PRE-TREATMENT

### WETTING AGENTS / DETERGENTS



<b>CELLDET-R</b>  Concentrated, ultra low foaming wetting agent cum detergent	n	It exhibits good rewetting properties and is suitable for scouring and bleaching.
<b>KAYNOL-LSA</b> Lycra Scouring agent	n	It is a solvent free wetting agent cum detergent. It removes stubborn oil, grease and wax dirt from lycra blend fabrics during scouring and bleaching. It is suitable for batch as well as continuous process.

## DYEING


### LEVELLING & MIGRATING AGENTS

<b>NYLOLEVEL-606 (XC)</b> Levelling agent for polyamide, dyestuff affinity	n	It is suitable for dyeing of nylon, wool and silk fabrics which are dyed with acid dyes. It possess excellent migration property which results into uniform and level dyeing. It is also suitable for metal complex dyestuffs.
<b>SUPERGEN-KMS</b> Levelling agent for wool and nylon	n	It reduces strike rate of dyes particularly in light shades, which results in excellent penetration and level dyeing.



### LUBRICATING & ANTICREASING AGENTS

<b>ANTICREASE (CONC)</b>  Economical, lubricating and crease preventing agent in powder form	a	It forms a thin, uniform, protective coating around the fibre to lower the surface friction, thus minimizing the formation of durable creases during high temperature wet processing of polyester. It is suitable for batch process.
<b>SARACREASE- HG (CONC)</b>  Concentrated and low foaming crease preventing agent	a	It is a low foaming lubricating agent which forms a thin and uniform protective coating around the fibre which lowers the surface friction and flexural rigidity thus minimizing fibre-to-fibre friction, fibre-to-metal friction and the formation of durable creases during high temperature wet-processing.
<b>SARAWOOL</b> Wool protecting agent	n	It can be used at all stages of processing of wool. It increases the weight of wool fabric. It reduces permanent setting of the wool especially at boil. It can be effectively used in winches and jets to protect it from creasing.

### pH SLIDING AGENT

<b>ACIDON-PA</b>  pH sliding agent	n	It controls the pH throughout dyeing with acid dyes and thus ensures uniform and reproducible dyeing for polyamides.
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### DYE FIXING AGENTS FOR ACID / METAL COMPLEX DYES

<b>NYLOFIX-993</b>  Acid stable dye fixing agent in powder form	a	It improves wet fastness properties of the dye fixed fabrics. It can also act as a reserving agent for polyamide /cellulosic blends.
<b>SARAFIX-NEW</b>  Acid stable dye fixing agent	a	It improves wet fastness properties of the dye fixed fabrics. It can also be used as a reserving agent for polyamide /cellulosic blends. It is especially suitable for light and pastel shades.
<b>FLUOROFIX-877</b> Dye fixing agent for fluorescent acid dyes	a	It improves the washing fastness and wet fastness properties viz., water contact fastness, sea water fastness and perspiration fastness of the dye fixed fabrics. It will not affect fluorescence of the dyed fabric.


## PRINTING AUXILIARIES

### DIGITAL / INK-JET PRINTING

<b>SARASOL-MB</b> Pre-treatment auxiliary for disperse inks on polyester	c	It is a pre-treatment agent applied in continuous process before Ink-Jet printing. It is concentrated, economical and easily dosable.
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PRODUCT NAME & FUNCTION	IONIC NATURE	DESCRIPTION
<b>SARASOL-1101</b>  Universal pre-treatment auxiliary for all inks on various substrates	a	It is a pre-treatment auxiliary to be applied in the continuous process before Ink-Jet printing especially for all types of fabric with disperse, reactive and acid dyes. It delivers level prints with sharp outlines. It has a film forming and adhesion property.
<b>DIGIPRINT-773</b> Pre-treatment auxiliary for disperse inks on polyester	a	It is applied in pre-treatment process before Ink-Jet printing on polyester fabric. It locally increases the viscosity thereby prevents the spreading of ink. It delivers even prints with sharp outlines and improved colour value. It is ready to use, easily dosable economical product with consistent viscosity.

#### PIGMENT PRINTING


<b>CELLBIND-FF</b> Formaldehyde free, Soft binder	a	It imparts very good wash, rubbing fastness and resistance to abrasion. It gives very good brightness, soft and elastic handle to printed fabrics. It can also be used as a coating agent to impart soft feel to the fabric.
<b>SYNTHICK-P 328</b> Synthetic thickener for pigment printing	a	It disperses readily in water. It can also be used as thickener for preparation of coating recipe.
<b>CROSSPRINT-CL / CL (CONC).</b>  Formaldehyde free crosslinking agent for pigment printing	n	It enhances fastness properties especially wet rubbing fastness of printed fabric.
<b>TEXPRINT-FF</b> Formaldehyde free crosslinking agent for pigment printing	a	It enhances the wet rubbing fastness properties of pigment printed fabrics.
<b>TEXPRINT-PP</b> Silicone softener for pigment printing	n	It is to be added in the print paste. It imparts soft and dry handle to the printed fabrics. It does not impair the fastness properties of pigment printed fabrics.

## FINISHING


#### SILICONE SOFTENERS - MICRO EMULSIONS

<b>AQUAconc-ET</b> Hydrophilic concentrated softener	n	It imparts excellent softening effect on all substrates. It is suitable for padding as well garment washing. Due to shear stability, it is also suitable in soft flow machine where liquor ratio is low.
<b>POLYSOFT-55</b>  Hydrophobic, blocked silicone softener	c	It imparts very good surface smoothness and body break and reduces caustic in weight reduction process. It is suitable in exhaust in soft flow as well as in continuous application.

#### SILICONE FLUIDS / OILS


<b>FERMA-986</b>  Non-yellowing, Quaternary silicone fluid	–	It can be easily emulsified into stable nano emulsion. Its emulsion is shear stable and pH stable and imparts hydrophilic, very soft, greasy peach handle with lubricity on all types of fibres.
<b>ULTIMOSOFT-Z (CONC)</b> Hydrophobic, Self emulsifiable, blocked silicone oil	n	It is shear stable, temperature stable and pH stable. It imparts smooth and super slick handle to cotton, polyester, nylon, polyester / cotton and other synthetics fabrics and their blends. It is suitable for pad and exhaust application.
<b>HAYSOFT-PR</b> Blocked silicone softener	n	It imparts soft and fluffy handle to all substrates. It is easily dilutable without use of emulsifier. It gives superior hand feel.




#### POLYURETHANE EMULSIONS

<b>TEXPEACH (CONC)</b>  Hydrophilic polyurethane based finishing agent	n / wc	It imparts lofty finish with good drapability. It forms a 3-dimensional film on substrate. It improves resistance to pilling and abrasion and also improves crease recovery angle.
<b>TEXPEACH-100</b> Durable, non-yellowing, concentrated polyurethane based finishing agent	n	It imparts lofty finish with good drapability by forming a 3-dimensional film on substrates. It improves resistance to pilling and abrasion and also improves crease recovery angle.



#### OIL, WATER & STAIN REPELLENTS

##### C6 FLUOROCARBON


<b>CAREGUARD-314</b>  No roller build up and excellent water repellency	n	It imparts best results on synthetic fabrics. It is an ideal product for fabrics which are to be coated. It can be applied by continuous, foam and spray technique. It passes Bundesmann test.
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PRODUCT NAME & FUNCTION	IONIC NATURE	DESCRIPTION
<b>CAREGUARD-66 (NEW)</b>  Durable oil and water repellent	n / wc	It imparts very good oil and water repellency especially on cellulosic substrates. It can be applied by continuous, foam and spray technique.
<b>CAREGUARD-7653</b> Suitable for low temperature curing	n / wc	It imparts excellent oil, water and solvent repellency. It is highly suitable for nonwovens and polypropylene fabrics.
<b>CAREGUARD-823 (CONC) NEW</b> Non-ionic, no roller build up and excellent oil repellency	n	It imparts excellent results on all substrates. It is highly suitable for pigment printed, aramid and taffeta fabrics.
<b>CAREGUARD-OR 359</b>  High oil and solvent repellency	n / wc	It imparts excellent oil, water and solvent repellency. It is highly suitable for pigment printed and aramid fabrics. It passes Gutter Test, ISO 6530:2005.
<b>CAREGUARD-OR 606</b>  High oil and solvent repellency	n	It imparts excellent oil, water and solvent repellency. It is highly suitable for pigment printed and aramid fabrics. It passes Gutter Test, ISO 6530:2005. Its performance is close to C8 based products.



#### FLUORINE FREE WATER REPELLENTS

<b>ECOGUARD-NEW</b>  High Performance durable water repellent	n / wc	It imparts very good water repellency especially on cellulosic substrates. It is also durable to multiple home launderings after Air-Line-Drying and Tumble Drying. The performance of It is better than the conventional paraffin wax and acrylate based products.
<b>ECOGUARD-SYN (CONC)</b>  Fluorine free water repellent	n / wc	It is a fluorine free speciality product for imparting very good water repellency especially on synthetic fabrics.



#### EXTENDER / CROSSLINKER FOR OIL, WATER & STAIN REPELLENT

<b>ECOLINK (CONC)</b>  Extender for oil and water repellent	n	Addition of Ecolink (Conc) improves durability to multiple home launderings.
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#### MOISTURE MANAGEMENT FINISH

<b>ESTOFEEL (CONC)</b>  Hydrophilic finishing agent with antistatic, soil resistant and soil release properties	n	It helps to overcome static charge generation and improves wicking property. It is peculiarly suitable for synthetics. It passes AATCC 195:2012 (Moisture Management Test).
<b>MOISTURE-GUARD</b>  Concentrated organic hydrophilic finishing agent	n / wc	A unique, durable moisture management product that imparts rapid moisture absorption, evaporation and improved wicking thereby producing a cooling effect to wearer. It is peculiarly suitable for cellulotics.

#### COLOUR DEEPENING AGENTS

<b>SARABLOOM-SL</b>  Imparts neutral to redder tone	n / wc	A colour deepening agent to obtain exceptionally high colour depth with neutral to redder tone on all substrates peculiarly on cellulotics. It also imparts good softness on the finished fabrics.
<b>SARABLOOM-2951</b>  Imparts bluer tone	wc	A colour deepening agent developed for fabrics dyed with blacks and navy's. It exhibits exceptionally high colour depth on the fabric imparting bluer tone.
<b>SARABLOOM-EX</b> Colour deepening agent suitable by exhaust application	c	It suitable for blacks, medium and dark dyed fabrics. It is suitable for polyester, polyamide and cellulosic fabrics, since it is shear stable, it is suitable in HTHP machines, soft flow, package dyeing, jigger winch and drum washer machines.

#### CHLORINE FASTNESS IMPROVERS


<b>SARADYE-429 (MOD)</b>  Chlorine fastness improver for polyamide	n	Developed for fabrics dyed with acid and metal complex dyes. It does not affect the hand feel of the fabric.
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#### FLAME RETARDANTS

<b>FLAMGUARD-DPS.</b> Durable flame retardant for polyester	n	It is halogen and formaldehyde free flame retardant. It is suitable for polyester, polyamide and polypropylene non woven fabrics. It passes NFPA-701, BS-3119, BS-5852 etc.
<b>FLAMGUARD-CAB</b> Flame retardant for back coating	wa	It is a durable, halogen and formaldehyde free flame retardant for back coating application. It is suitable for upholstery and automotive textiles. It can also be applied by foam coating. It passes NFPA-701, BS-5852, vertical flame test etc.
<b>SARAFLAM-PDR</b> Flame retardant for all substrates and blends in powder form	n	It is a halogen free, non-durable flame retardant which is durable to dry cleaning.

PRODUCT NAME & FUNCTION	IONIC NATURE	DESCRIPTION
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#### ANTI-MICROBIAL AGENTS

<b>SARAGUARD- 5700</b>  Silane based, durable and non-leaching	c	It passes ISO 18184: 2019, Antiviral test against enveloped and non-enveloped viruses. It is effective against broad spectrum of microbes such as <i>E.coli</i> , <i>S. aureus</i> , <i>MRSA</i> and <i>K. pneumoniae</i> . It is suitable by padding and exhaust application. It passes AATCC-100, JISL 1902, ISO 18184:2019 etc.
<b>SARAGUARD-FL</b> Economical, durable and non-leaching	c	It passes ISO 18184: 2019, Antiviral test against enveloped and non-enveloped viruses. It is effective against broad spectrum of microbes such as <i>E.coli</i> , <i>S. aureus</i> , <i>MRSA</i> and <i>K. pneumoniae</i> . It is suitable by padding and exhaust application. It passes AATCC-100, JISL 1902, ISO 18184:2019 etc.

#### ANTI-FUNGAL AGENT

<b>ZOROGUARD-ZP</b> Zinc pyrithione based, leaching	n / wa	It exhibits antifungal as well as antibacterial activity. It is effective against broad spectrum of microbes. It passes AATCC-30, AATCC-147 and AATCC-100 and JISL 1902 test methods. It also shows excellent anti-viral properties.
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#### MOSQUITO / INSECT REPELLENTS

<b>REPELLO-MSQ</b> Permethrin based	a	It is a contact based durable mosquito repellent available in micro dispersed form. It is recommended for cellulosic and other substrates. It is suitable for exhaust as well as padding application.
<b>SARAGUARD-MOSQ</b> DEET (N,N-diethyl meta toluamide) based	n	A micro-encapsulated durable mosquito repellent. It keeps mosquitoes away without them touching the surface of the finished fabric. It is suitable by padding as well as exhaust application. It passes WHO Cone Bioassay test.
<b>SARAGUARD-AP</b> Permethrin based moth and beetle proofing agent	n	It is a durable moth proofing agent developed for the fabrics which are meant for outerwear, sportswear, military fabrics, tents etc. Saraguard-AP treated garments have a knock-down effect on moths and other flying insects.

#### UV ABSORBERS

<b>SARAFAST-UV 325</b> Triazine based UV absorber	n	It reduces the fibre damage due to photo chemical degradation. It has very good dispersion stability and hence it is suitable in exhaust method of application.
<b>YUVI-493</b> Light fastness improver	a	It reduces the fibre damage due to photo chemical degradation. It has very good dispersion stability and hence it is suitable in exhaust method of application.
<b>YUVI-CELL</b> Imparts UPF 40-50	n	It is a durable UV protecting agent. It can be applied to dyed fabrics with minimum shade change.

#### PHENOLIC / THERMAL YELLOWING PREVENTERS

<b>QUENCH-APY</b>  Phenolic yellowing preventer	a	A concentrated product to prevent phenolic yellowing of fabrics during storage in polyethylene bags or cardboard cartons. It is suitable for exhaust as well as continuous application.
<b>QUENCH-BT</b> Phenolic yellowing preventer	a	It is a low foaming phenolic yellowing preventer for fabrics during storage, packed in polyethylene bags or cardboard cartons. It is suitable for exhaust as well as continuous application.
<b>SARASCOUR-RG (CONC)</b> Prevents yellowing due to heat setting	n	It is used to prevent yellowing of fabrics and knitted garments made from polyamide, lycra and their blends during heat setting. It is recommended for finishing of pale shades as well as for fabrics treated with optical brightening agents.

#### COATING AGENTS

<b>FABCOAT-5300</b> Soft Aliphatic Polyurethane	a	It is non tacky. It is suitable for knife coating. The viscosity of the product can be adjusted by adding thickener. Addition of 2-3% cross linker is recommended to increase the wash fastness of the coating. It is suitable for coating outdoor wear fabrics.
<b>FABCOAT-PU 50 (TF)</b> Hybrid polyurethane	a	It forms a medium hard film on the coated fabric. It is non tacky.
<b>FABCOAT-AR 100</b> Hard Acrylic binder	a	It is suitable for knife coating. It forms a very hard film and so it is recommended to be used as an additive to adjust the hardness of the coating.

**Ionic nature:** n = nonionic, c = cationic, a = anionic, wc = weakly cationic, wa = weakly anionic

**Substrate:** CO = Cotton, PES = Polyester, PA = Polyamide

 = certified product



# SUSTAINABLE PRODUCTS - COST, TIME & ENERGY SAVING

PRODUCT NAME & FUNCTION	IONIC NATURE	SUBSTRATE			DESCRIPTION
		CO	PES	PA	
<b>UNIV-811</b>  All in one pre-treatment auxiliary	n / wa	✓			<ul style="list-style-type: none"> <li>Saves inventory cost.</li> <li>The process requires 30% less acetic acid dosage in neutralizing bath compare to the conventional recipe.</li> <li>Very low COD of the drain bath hence minimizing the pollution potential.</li> </ul>
<b>ALKANOL-NP (MOD)</b>  No alkali-No peroxide Bleaching agent	a	✓			<ul style="list-style-type: none"> <li>No alkali-No peroxide Bleaching agent.</li> <li>Low Chemical Oxygen Demand (COD) of effluent.</li> <li>Low total dissolved solids (TDS) in effluent.</li> </ul>
<b>ESSBLEACH-BL</b> Low temperature bleach bath activator	n	✓			<ul style="list-style-type: none"> <li>Enables cotton bleaching at 75-80°C.</li> <li>It saves energy, time and total cost by catalysing reaction at lower temperature.</li> </ul>
<b>ENVICARE-SC</b>  Clay based, low foaming bleaching auxiliary	a	✓			<ul style="list-style-type: none"> <li>A single auxiliary that acts as a detergent, sequestrant, peroxide stabilizer and lubricant for achieving excellent whiteness with brightness.</li> <li>Lowers the COD and BOD load in the dye house effluent by 30-40%.</li> </ul>
<b>KETOPREP-LA (CONC)</b>  Low alkali bleaching auxiliary	n / wa	✓			<ul style="list-style-type: none"> <li>Replaces wetting agent, stabiliser and sequestering agent.</li> <li>Lower chemical consumption and less inventory.</li> <li>Low caustic required and hence less Total Dissolved Solids (TDS).</li> <li>Reduces chemical cost by 15-20%.</li> </ul>
<b>CHELATIN-SA</b>  Sugar acrylate based	a	✓			<ul style="list-style-type: none"> <li>Biodegradable sequestering agent.</li> <li>Caustic dosage in bleaching recipe can be reduced by 30% leading to lower TDS.</li> </ul>
<b>FEDA-SH (MOD)</b> Soda ash substitute	a	✓			<ul style="list-style-type: none"> <li>Requires 1/4th dosage of the soda ash during dyeing hence there is about 5% saving in dyeing cost and considerable reduction in inventory.</li> <li>Due to its lower dosage in dyeing, it reduces TDS, COD, BOD load in the effluent.</li> </ul>
<b>REDUCON-ACD (CONC)</b>  Reduction clearing agent applicable in acidic medium	n		✓		<ul style="list-style-type: none"> <li>It reduces the after treatment cycle time and improves productivity in comparison with the conventional process.</li> <li>5-6% savings in Chemical cost.</li> <li>40% saving in Water.</li> <li>16% saving in cycle time as per batch.</li> <li>16% saving in power per batch.</li> </ul>
<b>ITAWASH-LT (CONC)</b> Low temperature washing off agent for Reactive dyed / printed fabric	c	✓			<ul style="list-style-type: none"> <li>Lower consumption of steam, power and water resources.</li> <li>37% saving in Power.</li> <li>33% saving in Steam.</li> <li>37% saving in Time.</li> <li>25% saving in Water.</li> </ul>
<b>SARAKOL-0472.</b> Single bath washing off agent for Dark shades Reactive dyes	a	✓			<ul style="list-style-type: none"> <li>Saves water.</li> <li>Saves energy.</li> <li>Lower effluent load.</li> </ul>
<b>WASHOFF-PC</b>  One step, combined washing off agent for Polyester/Cotton (P/C) blend fabric	n	✓	✓		<ul style="list-style-type: none"> <li>Reduces cycle time as no need to carry out reduction clearing after polyester dyeing.</li> <li>Reduces the effluent load in terms of TDS, COD and BOD.</li> <li>20% saving in water., 14% saving in-cycle time per batch., 14% saving in power per batch.</li> </ul>
<b>DENIZYME-WF</b> Water free and stone free bleaching of Indigo denim	n	✓			<ul style="list-style-type: none"> <li>No need of Pumice stones.</li> <li>Saves Water and Energy.</li> <li>Reduced load in the effluent.</li> <li>Sustainable and green process.</li> </ul>
<b>BIO-PPN (CONC)</b> Bio-based potassium permanganate neutraliser	n	✓			<ul style="list-style-type: none"> <li>Eco-substitute for sodium meta bi-sulfite and hydroxylamine sulfate (HAS).</li> <li>It also neutralizes active chlorine and eliminates chlorine odour after hypochlorite bleaching.</li> </ul>
<b>ECOGUARD-NEW</b>  Fluorine free water repellent	n / wc	✓	✓	✓	<ul style="list-style-type: none"> <li>Fluorine free and per fluoroalkyl sulphonate (PFAS) free speciality product for imparting very good water repellency.</li> <li>Biodegradable and Environmental Friendly.</li> </ul>

**Ionic nature:** n = nonionic, c = cationic, a = anionic, wc = weakly cationic, wa = weakly anionic

**Substrate:** CO = Cotton, PES = Polyester, PA = Polyamide

 = certified product

## Certifications



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TO ZERO



ISO  
45001:2018



ISO  
17025:2017



ISO  
14001:2015



ISO  
9001:2015



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