

## TEXTILE AUXILIARY AGENTS (TAA)

### TAA for pretreatment (wetting, scouring, boiling, soaping)

- **Alfonal K**

*nonionic condensation product of diethanolamine and fatty acids*

Multipurpose highly efficient wetting agent with outstanding detergent properties.

- **Alfonal S**

*nonionic fatty alcohol ethoxylate*

High-speed wetting and low-foaming deaerating agent for all types of textile technologies.

- **Alfonal WEA**

*nonionic fatty alcohol ethoxylate*

Wetting, deaerating, defoaming and entirely non-foaming agent for all types of textile technologies.

- **Duopon BC**

*anionic aqueous solution of anionic surfactants with addition of nontoxic nonhalogenated organic solvents without any harmful effects on environment*

Ecological scouring agent with detergent, emulsifying and dispersing properties suitable for plant, animal and synthetic fibres. It is stable in both acid and alkaline environments and its main feature is the ability to perfectly scour all spinning preparations.

- **Duopon BCN**

*nonionic aqueous solution of nonionic surfactants with addition of nonhalogenated organic solvents*

Scouring agent with limited foaminess, high surfactant, emulsifying and dispersing efficiency and ability to perfectly scour all spinning preparations.

- **Duopon BCN-LF K**

*nonionic water-free blend of nonionic surfactants with addition of nonhalogenated organic solvents*

Scouring agent with limited foaminess, high surfactant, emulsifying and dispersing efficiency and ability to perfectly scour all spinning preparations especially in the presence of soda.

- **Duopon BCN-NF K**

*nonionic water-free blend of nonionic surfactants with addition of nonhalogenated organic solvents*

Scouring agent with no foaminess, high surfactant, emulsifying and dispersing efficiency and ability to perfectly scour all spinning preparations especially in the presence of soda. It is well suited for high-speed circulating and jet apparatuses.

- **Duopon LAV**

*anionic aqueous solution of surfactants with addition of inorganic compounds*

Scouring agent with no organic solvents suitable for pre-scouring, scouring and boiling of cellulose fibres, scouring of woollen materials and pretreatment of PES.



- **Syntapon ABA**

*synergistic blend of anionic surfactants in form of an aqueous solution*

Common scouring and boiling agent with high detergent and dispersing efficiency, suitable for boiling of cellulose materials, desizing, removal of spinning and spool oils and prints scouring. It is also useful for soaping of reactive dyeings.

- **Syntapon ABA-new**

*synergistic blend of anionic surfactants with addition of sodium salt alkyl derivatives*

Ecological scouring and boiling agent with high surfactant efficiency for both cold and boil processes. It is easily biodegradable, suitable for all types of fibres and their mixtures.

- **Syntapon ABT**

*anionic surfactant in form of sodium and alkanolamine salts*

Scouring and soaping agent, suitable for wetting, scouring and boiling of cellulose materials, prints scouring and soaping of saturated dyeings.

- **Syntapon AC**

*acrylic polymer*

Scouring agent suitable for removal of Ca, Mg and Fe+++ cations in all processes of pretreatment and printing where these cations are undesirable.

- **Syntapon N, NKS**

*blend of nonionic surfactants*

Low-foaming scouring agent suitable for continual wetting, scouring and boiling processes. It is preferable for cotton and wool technologies.



## TAA for dyeing & printing (wetting, engraining, anticreasing, levelling, dispersing, soaping, fixing, oxidizing)

- **Alfonal K**

*nonionic condensation product of diethanolamine and fatty acids*

Useful for dye baths as a wetting, engraining and levelling agent. Improved levelling effect can be achieved when combined with the Syntegal product range.

- **Alfonal S**

*nonionic fatty alcohol ethoxylate*

High-speed wetting, deaerating and low-foaming agent for all types of textile technologies.

- **Alfonal WEA**

*nonionic fatty alcohol ethoxylate*

Wetting, deaerating, defoaming and entirely non-foaming agent for all types of textile technologies.

- **Enacid 5 conc.**

*non-active blend of organic and inorganic non-volatile acids as a buffer*

An agent used to replace volatile acids such as the acetic or formic acid which deteriorate the dye house's air. If necessary, the product retains constant pH for the entire period of dyeing processes.

- **Syntamin PL**

*anionic synergistic blend of alkylphosphates and fatty acids alkanolamides*

Anticreasing agent with limited foaminess, stable in the whole range of pH values of the dye bath, suitable for both exhaust and padding techniques of dyeing. It imparts antistatic properties to the synthetic fibres.

- **Spolostan 4**

*anionic sodium salt of naphthalenesulfonic acid condensate*

Dispersing agent for dyeing of PES and PAD with disperse dyes, suitable especially for levelling of basic dyes on PAN fibres and levelling of anionic dyes on PAD fibres.

- **Synferol AH**

*anionic sodium salt of sulphated butyl oleate in an aqueous solution*

Medium-foaming, wetting, engraining, levelling and anticreasing agent for cellulose fibres which also enhances the levelling effect of PAD fabrics.

- **Syntapon AC**

*acrylic polymer*

Sequestering, scouring and soaping agent for reactive and vat dyeings and printings, used to remove Ca, Mg and Fe+++ cations in all processes of pretreatment and printing where these cations are undesirable. Levelling agent for dyeing of cellulose fibres.

- **Syntefix TE**

*strongly cationic aqueous solution of dicyandiamido-formaldehyde pre-condensate*

Fixing agent for direct and reactive dyeing that provides for increase in the wet stabilities of dyeing and printing. It has negligible formaldehyde content.

- **Syntefix R**

*modified quaternary polyamine in an aqueous solution*

Formaldehyde-free cationic fixing agent designed for subsequent enhancement of wet stabilities of dyeings with direct and reactive dyes.

- **Syntegal EODA**

*nonionic preparation of modified amine alkoxyolate*

Levelling agent for dyeing of wool, PAD and their mixtures with metal complex, acid and blended dyestuffs (Rybaset, Lanaset) where it provides optimal adhesion to the fibre. When properly dosed, it does not retain the dyestuff in the bath and for strongly exhaust dyestuffs it provides slow, levelled adhesion to the material.

- **Syntegal EODA new**

*nonionic preparation of modified amine alkoxyolate with addition of viscosity-reducing agents*

Levelling agent for dyeing of wool, PAD and their mixtures with metal complex, acid and blended dyestuffs (Rybaset, Lanaset) where it provides optimal adhesion to the fibre. When properly dosed, it does not retain the dyestuff in the bath and for strongly exhaust dyestuffs it provides slow, levelled adhesion to the material.

- **Syntegal HT-PES**

*nonionic compound of anionic acylpolyglycolether blended with efficient dispersant*

Levelling and dispersing agent for dyeing of PES with dispersion dyes also suitable for colour brightening. It prevents from precipitation of oligomers on fibre and dying apparatus. It enhances engraining and dye levelling of PES dyed using the Thermosol method. The flock dyed using this method is easy to spin, the yarn does not spin and the final materials are easy to mollify. The finished threads do not cut through the seams.

- **Syntegal O**

*blend of nonionic fatty alcohols derivatives*

Low-foaming levelling agent for dyeing of wool 1:2 with metal complex dyes. It improves engraining and features a superior levelling ability. It is also suitable for stripping of defective dyeing.

- **Syntegal TE**

*cationic aqueous solution of oxyethylenated alkanolamine methosulphate*

Levelling agent for dyeing of cellulose or PAD fibres with vat dyes.

- **Syntegal V 20**

*cationic aqueous solution of oxyethylated alkylamine methosulphate*

Levelling agent for dye baths with retarding and migration effects. It is intended for dyeing of wool fibres with acid dyes, dyeing of mixed materials (wool/PES) and dyeing of PAN with basic dyes.

- **Syntegal V 7**

*cationic aqueous solution of oxyethylated alkylamine methosulphate*

Levelling agent for dyeing of wool with reactive and substantive dyes, also suitable for prints scouring and prints soaping, colour brightening and stripping of defective dyeings.

- **Syntegal VW**

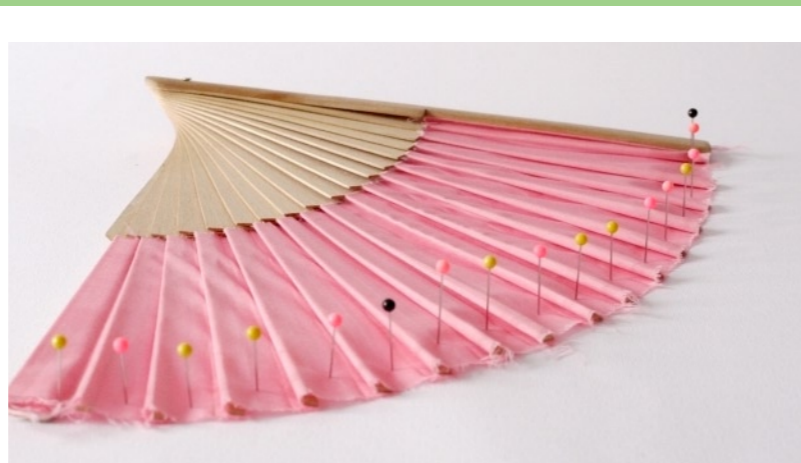
*mildly cationic aqueous solution of modified amine alkoxyolate*

Levelling agent for dyeing of wool and PAD with blended dyes (Rybaset). It ensures optimal adhesion of dye in terms of resulting effect.

- **Tiskan G**

*sodium m-nitrobenzenesulphonate*

Weak oxidizing agent for applications where it is desirable to protect especially reactive dyeings and printings from reducing effects of the environment. The product is available in dust-free form.



## TAA for finishing (milling, softening, stiffening, cleaning, antistatics)

- **Depremol TU-AC2**

*synthetic preparation based on acrylic polymer with addition of an antistatic*

Finishing agent intended for finishing of the textile materials which require enhanced stiffness, dimensional stability, long lifetime and antistatic efficiency.

- **Duopon VK**

*blend of anionic surfactants and ecological solvent*

Easily biodegradable milling agent for acid and neutral milling. It features favourable wetting, cleaning, dispersing, emulsifying and antiredeposition properties.

- **Duopon VN**

*blend of anionic and nonionic surfactants and solvents*

Milling and cleaning agent for neutral milling and wet detach. It bears properties similar to Duopon VK.

- **Syntamin 30, Syntamin 15**

*cationic quaternary ammonium compound with addition of stabilizing agents*

Highly efficient non-silicone softening agent for final washable treatment of textiles. It improves the touch and ready-made processing of textiles. The product is designed for softening both natural and synthetic fibres and their mixtures using exhaust and padding techniques.

- **Syntamin KPS**

*cationic aqueous transparent microemulsion*

Silicone-based softening agent with strong smoothing effect. It imparts a soft and flyaway touch to the material. The product is also suitable for the jet apparatuses and for both natural and synthetic materials and their mixtures.

- **Syntamin LM**

*cationic microemulsion of modified alkanolamine and smoothing agents*

Half-silicone softening agent suitable for BD yarns. It imparts a soft, smooth and flyaway touch to the material and decreases the seam cut-through. It is preferable for high-speed circulating apparatuses, for both natural and synthetic materials and their mixtures.

- **Syntamin NI**

*nonionic condensate of fatty acids with addition of stabilizing substances*

Highly efficient non-silicone softening agent for final washable treatment of textiles. It enhances the touch and ready-made textile processing. It is designed for softening of both plant and synthetic fibres and their mixtures which have been optically whitened. The product can be used with both exhaust and padding techniques.

- **Syntamin NSI**

*strongly nonionic clear silicone microemulsion*

Highly efficient softening agent for final, not entirely permanent treatment of textiles. It improves the touch, fly-away and ready-made processing of textiles and provides for easy 'wash-and-wear' maintenance. It is designed for softening of both plant and synthetic fibres and their mixtures which have been optically whitened. The product can be used in both exhaust and padding techniques as well as with coloured materials.

- **Syntamin SINI**

*strongly nonionic silicone microemulsion with addition of fatty acids condensate and preservatives*

Highly efficient softening agent for final, not entirely permanent treatment of textiles. It enhances the touch and ready-made textile processing and provides for easy 'wash-and-wear' maintenance. It is designed for softening of plant and synthetic fibres and their mixtures which have been optically whitened. The product can be used in both exhaust and padding techniques as well as with coloured materials.

## TAA others (flocclants, preparative, oiling and lubricating)

### • Arexol ANT

*alkanolamine salt of alkylphosphate*

Antistatic agent in the process of spinning of wool and synthetic materials.

### • Arexol UNI

*nonionic fatty acid derivative*

Preparative, oiling, lubricating and conditioning agent for the manufacture and textile processing of yarns made out of wool and synthetic materials.

### • Arexol UNI-BK

*nonionic blend of fatty acids derivatives and highly efficient antistatics*

Multipurpose preparative, oiling, lubricating and antistatic agent used for the manufacture of synthetic fibres and softening agent with superior antistatic effects on the processing of wool, synthetic fibres and their mixtures. The product does not depress the whiteness of white and coloured materials.

### • Arexol UNI-S

*nonionic blend of fatty acids derivatives and highly efficient antistatics*

Multipurpose preparative, oiling, lubricating agent and antistatic agent used for the manufacture of synthetic fibres and softening agent with superior antistatic effects on the processing of wool, synthetic fibres and their mixtures.

### • Arexol VS

*blend of highly refined oil and nonionic emulsifier*

It is used for oiling of wool and its mixtures with synthetic fibres.

### • Arexol VSM

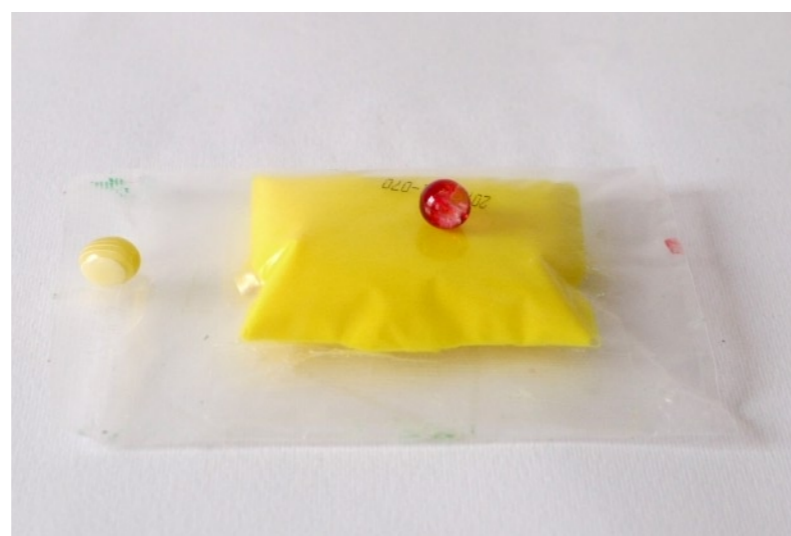
*nonionic vegetable oil derivative*

Preparative, oiling, lubricating and conditioning agent for the manufacture and textile processing of yarns made out of wool, cellulose materials and their mixtures. The product is easily biodegradable in the waster water.

### • Enaflok OV

*strongly cationic aqueous solution of dicyandiamido-methylene pre-condensate*

The agent used to precipitate anionic dyes and surfactants in waste waters that can be separated.



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