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Associazione Tessile e Salute
Azienda associata

p.IVA 00736390964 C.F. 02639210158 c.c.i.a. Milano n. 927455 Codice ISS azienda 00736390964

GAMMAPAL WDE

Levelling-dispersing agent for the dyeing of polyester fibers with disperse dyes in a critical operating conditions.

Composition: polyglycolic straight-ester

Appearance: clear liquid amber

Density at 20°C: 1.00 g/cm³

Ionic charge: non-ionic

pH: solution 10 g/l 7.0

Behavior in water emulsion and Stability to hard waters: excellent even at 20° dH

Stability to pH changes: optimal pH 2 to pH 12

Foaming power: minimum

Compatibility: compatible with products and dyes of anionic, cationic and non-ionogenic

Storage stability: excellent from 10 to 40°C for 12 months. Prolonged temperatures below the range indicated cause an increase in viscosity, which is reversible when up to ambient temperature.

Properties:

GAMMAPAL WDE is indicated for the dyeing of polyester fibers with disperse dyes. It acts as a dispersing agent to help the migration and the diffusion of the dyes within fiber thus being particularly suitable for the dyeing of yarn bobbins also large and very beaten tissues.

GAMMAPAL WDE shows a detergent-emulsifier action toward spinning and winding lubricants, as well on oligomers.

GAMMAPAL WDE is also used in the alkaline dyeing of polyester as also of blends with cellulosic fibers, resulting perfectly compatible with direct dyes and vat; the product is also ideal for the equalization of defective dyes and reducing treatments subsequent to dyeing.

GAMMAPAL WDE has excellent leveling—migrant power, and retardant power especially at the beginning of the dyeing even under particular criticism, for example using very low liquor ratio or in the presence of dyes in large molecule used to obtain high fastness.



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GAMMAPAL WDE does not contain derivatives of alkylphenols and should be considered "environmentally advanced " for its easy biodegradability, it can also be dosed by automatic systems.

Preparation of solutions:

Prepare by just mixing while stirring ,adding the product to cold water or warm water.

QUANTITY OF USE

1) Dyeing polyester fibers

GAMMAPAL WDE is employed in the amount of 0.8-1,5 g/l whether you operate in the presence of carriers or in equipment under pressure without blowing agents. The product is added to the acidified dyeing bath (pH 4.5-5) and heated to 40-50°C; after this you can add the eventual carrier and the dispersion of the dyes.

2) Recovery of defective dyeing

GAMMAPAL WDE is valid in the recovery of not well levelled dyeing in combination with carrier; it's recommend to use it at 1.5-3 g/l.

3) Reductive after treatment post dyeing

GAMMAPAL WDE is suitable to cleaning reducing treatments post dyeing improving color fastness especially for very dark tones.

The treatment is carried out at 70-80°C in the presence of:

1 -3 g/l sodium hydrosulfite

3 -6 g/l caustic soda 30%

0.5-1.5 g/l **GAMMAPAL WDE**

Keywords: leveling, levelling agent, dispersant, dispersing agent, polyester, disperse, emulsifier, oligomers, antioligomers, leveler, migrant, retardant

The contents of this circular is indicative in nature. Please adapt the advice to the use of our products to the environmental conditions and materials to be treated. For information: e-mail

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