

Evosurf series

Evosurf ZFD

Zero foaming detergent for jet/high turbulence machines.

INTRODUCTION

Cotton is based on 85-90% of cellulose and the remaining portion consists of impurities such as fats, waxes and organic compounds. Fiber materials in the form of textile fabrics, for example woven or knits, especially cotton fabrics, normally have to be subjected to a pretreatment before they are dyed. One purpose of the pretreatment is to ensure trouble-free uniform dyeing. Ensuring that the fabric is well prepared involves removal of the natural and man-made impurities present in the greige fabric.

Evosurf ZFD is a very low foaming wetting agent and detergent for all types of fibers. Is a biodegradable, APEO and solvent free wetting agent and detergent with an emulsifying and dispersing action for scouring and bleaching as well as removing mineral oil contamination.

The product is primarily suitable for the discontinuous treatment of all types of fibers and their blends, not recommended in machines with high liquor turbulence and can cause foaming problems.

FEATURES

- Excellent scouring agent with rapid wetting action and high cleaning power.
- Removes mineral oil contamination and sizing agents and imparts excellent cleanliness and good absorbency to the material
- Exhibits good compatibility with all enzymes
- Good pH stability and therefore a wide application spectrum, e.g. in scour boiling, bleaching, protonic treatments, bio washing etc.
- Stable in liquors with up to 40g/l caustic soda solid (ca.6°Bé)
- No foaming
- Ecological as it is free from APEO, nitrogen and phosphorous.

PROPERTIES

Appearance	Colourless to hazy slightly viscous liquid
pH	approx.7.0
Ionic character	Non-ionic

STALWART ADVANCE MATERIAL INDS

Application & Business Center, B-120, Ansa Industrial Estate, Saki Vihar Road, Sakinaka, Andheri (E), Mumbai – 400 072.
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Compatibility with	
Cationics	Good
Anionics	Good
Non-ionics	Very Good
Stability to	
hard water	Good
alkali	Good (upto 40 g/l)
temperature	Good

SAMPLE RECIPE FOR PRETREATMENT OF KNITS

Protonic pretreatment (liquor ratio 1:10)

	Add chemicals preferably at 40°C
0.2 – 0.3 ml/l	Evosurf ZFD
1 ml/l	Neoquest PP
	Heat to 60°C. Treat for 20 minutes at 60°C. Drain.

Scouring & Peroxide bleach (liquor ratio 1:10)

	Add chemicals preferably at 40°C
0.5 – 1.0 ml/l	Neoquest HRS
0.4 – 0.6 ml/l	Evosurf ZFD
0.75 – 2 ml/l	Lubatex ACA
3 – 5 ml/l	caustic soda 36°Bé
3 – 6 ml/l	hydrogen peroxide 35%
0.3 – 0.8 ml/l	Oxystab IPS
	Heat to 98°C.
	Treat at the boil for 45 – 60 minutes
	Cool to 70°C. Drain
	Rinse hot for 10 – 20 minutes at 80°C.
	Drain
	Neutralize with
1ml/l	Neutracid AAS for 15 – 20 minutes at 40-60°C.
	Drain
	Remove residual peroxide with
0.3 - 0.5 ml/l	Protozyme CPK for 15 - 20 mins at 40-60°C & pH 6-8.
	Drain.

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Biopolishing

0.5-1.5 ml/l	Add chemicals preferably at 40°C Protozyme BPA
0.3-0.5 ml/l	Heat to 55°C and maintain pH 5.0 with Neutracid AAS. Treat for 45 mins maintaining pH 5.0. Increase the temperature to 80°C. Drain.
0.3-0.4 ml/l	Rinse cold with Evosurf ZFD for 10-15 mins. Drain.

STORAGE AND HANDLING

Precautions for safe handling	Do not eat, drink or smoke while handling the product.
Conditions for safe storage	Store in a cool, dry & ventilated area away from the sources of heat.
Shelf Life	6 months.

Note: Kindly refer SDS for further information on Storage & Handling.

Evosurf is a registered trade name of Stalwart Advance Material Inds.

The information and recommendations presented here were based on our general experience and correspond to the state of our knowledge. They are intended to service as non-binding guidelines and must be adapted to the prevailing conditions. We cannot accept liability for any injury, loss or damage resulting from reliance upon such information.

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