

Ultreza series

Ultreza DISP

Dispersing agent for polyester dyeing.

INTRODUCTION

Polyester dyeing at 130°C in beam and package dyeing machines has placed especially great demands on aspects of both, initial dispersion quality and subsequent leveling under adverse conditions.

The crux of the problem lies in the inherent thermodynamic instability of all dye dispersions, there being an overall tendency of fine particles to undergo Ostwald ripening with consequent formation of large particles.

Ultreza DISP is such a dispersing agent, which disperses the dye molecules evenly and maintains an equilibrium state in water. It controls the exhaustion and migration of dyestuffs in the dye bath. It is also used to get best advantage in the dye bath to provide migration action with minimal retarding effect for level dyeing of polyester and its blends.

FEATURES

- Disperses the dye molecules and maintains an equilibrium dispersion of dye molecules.
- Prevents agglomeration of dyestuffs at high temperature and facilitates dye migration.
- Prevents precipitation of dyes with impurities in the fibre.
- Good temperature stability.
- Improves dye solubility and promotes level dyeing.
- Permits improvement of dyeing reproducibility.
- Prevents dye agglomeration induced by hard water or salt addition.
- No foaming.
- Ecological as it is free from APEO, nitrogen and phosphorous.

PROPERTIES

Appearance	Dark brown liquid
pH	approx.7.0
Ionic character	Anionic

STALWART ADVANCE MATERIAL INDS

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Compatibility with	
Cationic	Poor
Anionic	Good
Non-ionic	Good
Stability to temperature	Good

SAMPLE RECIPE FOR POLYESTER DYEING

	Add chemicals preferably at 40°C
0.5 – 1.5 g/l	Neutracid AB
0.5 – 1.0 g/l	Ultreza DISP
0.5 – 1 g/l	Ultreza LP
	Raise the temperature to 50°C & run for 10 mins.
	Add
x%	Disperse dyes
0.5-1 g/l	Neutracid AS for pH 4.5-5.5.
	Treat at 130°C for 40-60 mins
	Lower the temperature to 80°C and drain the bath.
	Rinse thoroughly for 20 mins
	Raise the temperature to 80-90°C
1.0 – 2.0 g/l	Evoran RC
1.0 – 2.0 g/l	Caustic Soda
	Treat for 10-15 mins.
	Cold wash for 15-20 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.

Ultreza 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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