

## Ultreza series

### Ultreza DLP

#### Polyester leveling and dispersing agent for disperse 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 DLP** 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. **Ultreza DLP** 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.

Thus, **Ultreza DLP** is designed to satisfy the needs which effectively combines dispersing and leveling properties to uniformly dye the fabric.

#### 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	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
Stability to hard water	Good

### **SAMPLE RECIPE FOR POLYESTER DYEING**

	Add chemicals preferably at 40°C
0.5 – 1.5 g/l	Neutracid ABD
0.5 – 1.0 g/l	<b>Ultreza DLP</b>
	Raise the temperature to 50°C & run for 10 mins.
	Add
x%	Disperse dyes
0.5-1 g/l	Neutracid AAS 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-ALK
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.**

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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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