

ITOWHITE ER50 is an optical brightening agent for polyester and acetate by either exhaustion or pad thermasol application.

PROPERTIES

- **Appearance** : Yellow dispersion
- **Ionic Character** : Non-ionic
- **Solubility** : Dispersible in water
- **Shade** : Blue/Violet

APPLICATION

Polyester:

In Pad Thermasol

- **ITOWHITE ER50** : 5-15 g/l
- **Pick up** : 60-70%
- **Curing** : 170-210°C for 20-30 seconds.

In Exhaustion (high temperature):

- **ITOWHITE ER50** : 0.3-0.8 %
- **Liquor Ratio** : 10:1, at 110-130°C for 30 min.
- **Dehydrating and Drying** : 100°C

In Exhaustion (low temperature):

- **ITOWHITE ER50** : 0.3-0.8%
- **Carrier** : 1-2g/l
- **Liquor ratio** : 10:1, at 100°C for 30 min.
- **Dehydrating and Drying** : 100°C

Polyester/Cotton Blends:

In Bleaching:

- **Hydrogen Peroxide (35%w/w)** : 6-8ml/l
- **Caustic Soda** : 0.5g/l
- **ITOSCOUR LJ300U** : 0.25-0.75g/l
- **Peroxide Stabiliser** : 1.0g/l
- **ITOWHITE EVB** : 0.1-0.4%
- **Cellulosic Brightener** : 0.2-0.5%
- **Liquor Ratio** : 10:1, at 100°C for 45 min.

CHARACTERISTICS

1. Produces a pronounced Blue/Violet shade.
2. Has good light and wash fastness.
3. Applicable by either exhaust or pad thermasol.
4. Suitable for application on winch, jet, jig or package machines.

DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

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APPENDIX

Application to Acetate

In Pad Thermasol:

- **ITOWHITE ER50** : 5-15 g/l
- **Pick up** : 60-70%
- **Curing (Sec Acetate)** : 170-180°C x 30-50 seconds
- **Curing (Tri Acetate)** : 190°C x 30-50 seconds

In Exhaustion:

- **ITOWHITE ER50** : 0.3-1.0 %
- **Liquor Ratio** : 10:1
- **Temperature (Sec Acetate)** : 80-85°C
- **Temperature (Tri Acetate)** : 95-100°C

Application to polyester/cellulosic blends
ITOWHITE ER50 can be applied to the polyester component of a polyester/cellulosic blend in conjunction with a cellulosic brightener such as ITOWHITE GBP. A typical bleaching recipe for 50/50 polyester cotton blend is as follows:

In Bleaching:

- **Hydrogen Peroxide (35%w/w)** : 8ml/l
- **Caustic Soda** : 0.5g/l
- **ITOSCOUR LJ300U** : 0.25-0.75g/l
- **Peroxide Stabiliser** : 1.0g/l
- **ITOWHITE ER50** : 0.3-1.0%
- **ITOWHITE GBP** : 0.25-1.0%
- **Liquor Ratio** : 10:1, at 100°C for 60 min.

Fastness results:

	Light Fastness	Wash Fastness	
	Blue Scale rating	ISO3	ISO4
Polyester	6	5	5
Triacetate	5	5	5
Acetate	5	5	5