

TECHNICAL INFORMATION

Eganal® DFT liquid

Eganal® DFT liq

Leveling agent for dyeing mainly polyester but also acetate, triacetate and polyamide fibers with disperse dyes

- can be used to lighten the dyeing
- can also be used as an auxiliary during stripping of dyeings in reductive baths
- as a washing agent, promotes the rapid removal of unfixed dispersed dyes during the washing off and reduction clearing of dyeings and prints
- Strengthen the effect of the reduction agents drying discharging the printings.

1. Properties

| | |
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| Appearance | homogeneous, yellowish clear liquid |
| Chemical character | alkyl polyglycol ether |
| Ionic character | nonionic |
| pH (1% in water) | 6.5 -8.5 |
| Dilutability | dilutable in all proportions with water (40°C) |
| Storage stability | good. The viscosity increases as the temperature falls. When heated, the product regains its appearance. |
| Stability of solutions to | |
| <ul style="list-style-type: none"> • acids • alkalis • salts | <p>good</p> <p>good</p> <p>good. If higher amounts are added into hot water, solutions turns turbid. This turbidity disappears on cooling.</p> |
| Compatibility with | |
| <ul style="list-style-type: none"> • anionic products • non ionic products • cationic products • | <p>good</p> <p>good</p> <p>good</p> |
| Foam formation | moderate to average according to the machines |
| Eco-toxicological data | See Safety Data Sheet |

2. Mode of action

During polyester exhaust dyeing, **Eganal® DFT liq** increases the solubility of disperse dyes. Product is easily diluted in any proportion with hot water (50°C). The solution is stable. It can be added without any problem in the dyeing bath.

3. Application

3.1. Exhaust application during dyeing and brightening

3.1.1 Eganal® DFT liq is suitable for exhaust dyeing with disperse dyes on PES, PA, acetate, triacetate fibres. To strengthen the effect of **Eganal® DFT liq** it is strongly recommended to combine it in the recipe with an anionic dispersant such as Lyocol® RDN liq / Lyocol® PRDN liq. In foam-sensitive dyeing machines it is advisable to add antifoam such as Antimussol® HTS liq Antimussol® UDF liq

Metering 0,2 % - 0,5 % **Eganal® DFT liq**
 0,5 % - 1,0 % Lyocol® RDN liq / Lyocol® PRDN liq

3.1.2. During fluorescence brightening of PES, triacetate fibers under high temperature with disperse brighteners, recommendations given for dyeing with disperse dyes shall be followed.

3.2 Application during washing off or reduction clearing of dyeings

In washing off **Eganal® DFT liq** removes the unfixed disperse dye rapidly and thoroughly.

3.2.1 Dyeing

According to the intensity of the shade, caustic soda and Cyclanon® MCL liq or Sodium Hydrosulphite can be used or not.

- Washing of the dyeings 0.5 to 1% 50°C to 70°C
- Reduction clearing of dyeings 1% **Eganal® DFT liq**
 4 ml/l caustic soda 36°Bé
 2 g/l Cyclanon® MCL liq or Hydrosulphite
 80°C

3.2.2 Printing

In case of printings, disperse dyes should be removed without staining the ground. The following procedure should be taken into account:

- Cold rinsing
- Rinse at 40°C with 1g/l **Eganal® DFT liq**
- Rinse at 60°C with 1g/l **Eganal® DFT liq**
- Rinse at 80°C with 1g/l **Eganal® DFT liq**
 2 ml/l Caustic soda 36°Bé
 2 g/l Cyclanon® MCL liq
- Cold rinsing - Neutralizing

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