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TECHNICAL INFORMATION

Wik Release 1350 (DT-WIK 010)

Introduction

DT-WIK 010 is a wash durable textile-finishing agent which imparts soil release, anti-static properties, moisture management, and increased vertical wicking to polyester and polyester blends. It is particularly effective on knit fabrics made from polyester yarns and has benefits in preparation and dyeing operations. **DT-WIK 010** has also been shown to improve soil release and wicking properties in cotton fabrics.

DT-WIK 010:

- Imparts soil & stain release properties
- Reduces trimer build up in polyester dyeing
- Provides in-bath scouring by functioning as an oil scavenger
- Prevents soil redeposition
- Improves moisture absorbency of polyester fabrics
- Minimizes static build up and adds comfort to garments
- Can be added directly to the dye bath during high-temperature dyeing
- Acts as a lubricant in the dyeing process, improving consistency and eliminating crow's feet and crack marks
- Inhibits greying of polyester-containing fabrics during laundering
- Enhances whiteness and color retention

1. Properties

Appearance:	Off-white liquid dispersion
Composition:	Hydrophilic polymer
Ionicity:	Nonionic
pH:	5.0
Solubility:	Miscible with water
Compatibility with other finishing products:	Compatible with cationic, anionic, and nonionic additives
Storage:	Store below 40 °C. Avoid freezing.
Eco-toxicological data:	See MSDS

2. Application Properties

2.1 Methods:

DT-WIK 010 can be applied by exhaust or padding. To produce noticeable effects it should be used in quantities of at least 2% relative to the weight of the goods.

3. Application

High-temperature dyeing:

The preferred method of application is during high temperature dyeing in the disperse dye procedure. The product is exhausted onto the fabric like a dyestuff.

1. Set dyebath at 40 °C (100 °F) with the following:

   4% - 7% (owg) **DT-WIK 010**

   Acetic acid to pH 4.5 – 5.5

2. Add carrier and defoamer if needed.
3. Increase temp to 60 – 65 °C and add dyestuff.
4. Raise to 130 °C. Hold for 15-45 minutes.
5. Cool and rinse as usual.
6. Reduction clear.
   a. Performance properties of **DT-WIK 010** may be negatively affected by reduction clearing. Any loss in attributes can be minimized by an additional 1% - 2% **DT-WIK 010** in the initial dye charge.

Exhaust post application to white fabrics:

1. Set bath at 40 °C with the following:

   4% - 7% (owg) **DT-WIK 010**

   Acetic acid to pH 4.5 – 5.5

2. Increase temperature to 95 °C and run 15 – 30 minutes.
3. Cool and rinse as usual.

Exhaust one-bath application for white fabrics:

1. Set bath to 40 °C with the following

   4% -7% (owg) **DT-WIK 010**

   Acetic acid to pH 4.5 – 5.5

2. Increase temperature to 60 – 65 °C and add optical brightener.
3. Raise temperature to 130 °C and hold for 15 – 45 minutes.
4. Cool and rinse as usual.

Pad application:

1. Add the following to trough:

   20 – 40 g/L **DT-WIK 010**

   Acetic acid to pH 5.0 – 6.0

2. Dry & heat set as usual

4. Notes

Some silicone defoaming agents and hydrophobic finishing agents and carriers may interfere with optimum wicking and soil release properties. Prior testing of auxiliary products is always recommended.

All OSM Shield chemistry Bluesign approved, REACH compliant, ZDHC Level 1 registered, PFC-Free, and PFOA-free.