

Technical - Information

AVCO-CATALYST RWK

CONCENTRATED COMFORT FINISHING AND WICKING AGENT FOR SYNTHETIC FIBRES

AVCO-CATALYST RWK is a durable hydrophilic comfort-finishing and moisture management agent for synthetic fabrics, especially for polyamide fibres and for their blends with cellulose fibres.

Finishing synthetic fibres with AVCO-CATALYST RWK is applying to the treated fibres hydrophilic properties, which enables absorbency of sweat and humidity by a wicking process and releasing it to the atmosphere by quick evaporation process.

Finishing synthetic knits with AVCO-CATALYST RWK is highly recommended for high active sports wear, when there is a need to absorb the sweat from the skin and release it as quickly as possible out of the body of the wearer.

SPECIFICATIONS:

Appearance	Clear, yellowish, slightly viscous liquid.
Chemical nature	Aqueous dispersion of polyamide co-polymer.
Ionic type	Non-ionic.
Solubility	Miscible with water at any ratio.
Density (g/cc)	App. 1.05
PH (10% sol.)	3 - 5
Compatibility	Compatible with most other finishing agents used in polyester dyeing and finishing.
Storage	Stable under normal conditions. Avoid freezing. Shelf life is at least 12 months.

PROPERTIES & USES:

1. AVCO-CATALYST RWK is used for producing synthetic fabrics of higher quality by enhancing, on a durable basis the properties of the treated fabrics which are appreciated by the consumer such as:

a. Increases wearing comfort:

The garment will absorb the body perspiration readily and will transfer the sweat from the human skin throughout the treated fabric outside to the air.

b. Anti-static effect:

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AVCO-CATALYST RWK minimizes the build-up of static charges in the treated garment and, therefore, reduces the clinging effect. The pickup of airborne dust is also reduced.

2. AVCO-CATALYST RWK is versatile in application, either in batch-wise by exhaust process or in continuous by padding methods.
3. AVCO-CATALYST RWK may be applied also by spraying method. Spraying should be done in closed spraying unit in a well ventilated working place.
4. AVCO-CATALYST RWK is a concentrated product.
5. The finish is resistant to mild washing.
6. The cost of the application is limited to the chemical cost no extra processing stages are required.
7. It is low foaming.
8. Can be applied together with hydrophilic softeners.

APPLICATION:

The amount of AVCO-CATALYST RWK and the optimum conditions of application, varies depending on the goods being processed, the machinery used and, most importantly, the effect required. However 0.3 – 1.0 % on weight of the goods are sufficient.

Before the application of AVCO-CATALYST RWK, the textile should be free of any residual hydrophobic substances.

The product should be pre-diluted with water before use.

The pH of the application bath should be adjusted to 4.5 – 5 before adding the AVCO-CATALYST RWK.

1. Application by exhaust methods (jet, winch, beam dyeing machines etc.)

Adjust pH of the finishing bath to 4.5 – 5 with acetic acid.

Add 0.3 – 1.0 % AVCO-CATALYST RWK (pre-diluted).

Heat up to 50 - 70°C and treat for 20 minutes.

Hydro-extract and dry at usual conditions.

2. Application by continuous padding procedures

Adjust pH of the finishing bath to 4.5 – 5 with acetic acid.

Add 3 – 10 g/l AVCO-CATALYST RWK (pre-diluted).

Liquor pick up should be 60 – 80%.

Pad and dry under usual conditions (100 – 140°C).