
TUBINGAL HWT

Characterization	Hydrophilic textile softener with an excellent suitability for whites
Chemical Structure	Formulation based on a functional polysiloxane with additives
Appearance	Opal liquid
Ionic Character	Non-ionic, slightly cationic
pH Value of 10 % Solution	4.7 – 6.3
Specific Weight at 20 °C	Approx. 1.0
Stabilities	<p>TUBINGAL HWT is stable to hard water, acids, alkalis and electrolytes in the usual concentrations.</p> <p>The product is highly sensitive to frost; after the impact of temperatures around the freezing point irreversible changes will occur.</p> <p>TUBINGAL HWT is sensitive to heat as of 40 °C.</p>
Storage	If stored properly in closed original containers, TUBINGAL HWT will hold for at least 12 months.

Properties

TUBINGAL HWT stands out for the following properties:

- excellent rewettability of the finished articles
- distinctly soft, sleeky handle
- highly suitable for whites and also applicable for moulding articles
- can be combined with selected optical brighteners
- suited for the use in easy care finishing liquors
- improves the sewability
- stable to shearing and low foaming, applicable on jet dyeing machines
- applicable in exhaust and padding processes

Application technique

Diluting instructions

TUBINGAL HWT can be diluted with cold water to any desired application concentration.

Application Fields

TUBINGAL HWT is excellently suited for the soft handle finishing of wovens and knits made of cellulose fibres, wool and synthetic fibres as well as their blends.

TUBINGAL HWT can be used in numerous application fields. The product is excellently suited both for terry cloth articles and for various sportswear knit types. Further application fields of this product are workwear and functional garment as well as ready-made articles such as socks and stockings.

The product can be applied in padding and exhaust processes and it can be easily used on jet dyeing machines.

Recipe Proposals

The application amounts depend on the desired effect. The following quantities serve as standard values:

Exhaust process:

1 – 3 % TUBINGAL HWT

pH value: 5.0 – 6.0

Liquor ratio: 1 : 5 – 1 : 20

Temperature: 40 °C

Time: 20 min

Drying: under the industrial conditions

Padding process:

10 – 30 g/l TUBINGAL HWT

pH value: 5.0 – 6.0

Liquor pick-up: approx. 70 %

Drying: under the industrial conditions

Easy care finishing – CO wovens:

40 - 60 g/l REAKNITT PR

15 - 20 g/l CHT-KATALYSATOR FS

10 - 30 g/l POLYAVIN PEN

10 - 30 g/l TUBINGAL HWT

20 - 30 g/l TUBINGAL RWM

5 - 20 g/l TUBOBLANC HV (for whites)

1 - 2 g/l KOLLASOL HV

Liquor pick-up: approx. 70 - 80 %

Drying: under the industrial conditions

Curing: 3 min at 150 °C or 30 - 40 sec at 170 °C

Easy care finishing – CO knits:

40 - 60 g/l REAKNITT TW
10 - 30 g/l POLYAVIN PEN
10 - 30 g/l TUBINGAL HWT
1 - 2 g/l KOLLASOL HV

Liquor pick-up: approx. 70 - 80 %
Drying: under the industrial conditions
Curing: 3 min at 150 °C or 30 - 40 sec at 170 °C

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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