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## TUBINGAL MHQ

<b>Characterization</b>	Hydrophilic textile softener with an excellent suitability for whites
<b>Chemical Structure</b>	Formulation based on a functional polysiloxane with additives
<b>Appearance</b>	Opal, yellowish liquid
<b>Ionic Character</b>	Slightly cationic
<b>pH Value</b>	4.0 – 6.0
<b>Specific Weight at 20 °C</b>	Approx. 1.0
<b>Stabilities</b>	<p>TUBINGAL MHQ 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 MHQ is sensitive to heat as of 40 °C.</p>
<b>Storage</b>	If stored properly in closed original containers, TUBINGAL MHQ will hold for at least 12 months.

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## Properties

TUBINGAL MHQ stands out for the following properties:

- excellent rewettability of the finished articles
- distinctly soft, sleeky handle
- high resistance to yellowing, suited for fabrics to be used for screen printing
- suited for the use in easy care finishing liquors
- improves the sewability
- stable to shearing and low foaming, applicable on jet dyeing machines
- resistant to temperate washings
- applicable in exhaust and padding processes

## Application technique

### Diluting instructions

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

## Application Fields

TUBINGAL MHQ 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 MHQ 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:

0.5 – 1.5 %	TUBINGAL MHQ
pH value:	5.0 – 6.0
Liquor ratio:	1 : 5 – 1 : 20
Temperature:	40 °C
Time:	20 min
Drying:	under the industrial conditions

## Recommendation;

Since there are many different types of jet dyeing machines on the market, product stability should be checked before applying for the first time in jets.

Padding process:

5.0 – 15.0 g/l	TUBINGAL MHQ
pH value:	5.0 – 6.0
Liquor pick-up:	approx. 70 %
Drying:	under the industrial conditions

## Easy care finishing – Cotton fabric:

40.0 – 60.0 g/l	REAKNITT TW
10.0 – 30.0 g/l	POLYAVIN PEN A
10.0 – 20.0 g/l	TUBINGAL MHQ
1.0 – 2.0 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 / Free formaldehyde – Cotton fabric:**

60.0 – 100.0 g/l	REAKNITT ZFA PLUS
10.0 – 30.0 g/l	POLYAVIN PEN A
20.0 – 40.0 g/l	TUBINGAL MHQ
1.0 – 2.0 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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