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## TUBINGAL MAC 81

### Characterization

Silicone softener for textile finishing

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### Chemical Structure

Amino functional polysiloxane emulsion

### Appearance

White liquid

### Ionic Character

Non-ionic

### pH Value of a 10% solution

4.0 – 6.0

### Specific Weight at 20 °C

Approx. 1.0

### Stabilities

TUBINGAL MAC 81 is sensitive to frost.

### Storage

If stored under 30 °C in closed original containers, TUBINGAL MAC 81 will hold for at least 6 months. Protect from frost.

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## Properties

TUBINGAL MAC 81 is an auxiliary additive for bettering the finish on any kind of textiles. Cotton, synthetic fibres as well as mixtures of both obtain a silky and soft handle when treated with TUBINGAL MAC 81.

TUBINGAL MAC 81 provides the opportunity, due to the small particle size of the dispersed phase, not only to crosslink on the fibre surface in order to prevent wrinkling but also to penetrate the fibre to develop its special finishing qualities.

The textiles obtain a significant increase of their elastomeric properties whereas the touch highly improves. Exactly these features predestine TUBINGAL MAC 81 for the application on 'wash-and-wear' textiles.

The usage of TUBINGAL MAC 81 increases the sewability as well as scouring and breaking strength.

TUBINGAL MAC 81 shows high stability against shear forces.

In case of prolonged storage, silicone emulsions can show differences in concentration due to condensation of water at the top of the container and due to slight creaming. The emulsion should be stirred up very well before application.

## Application technique

### Diluting instruction

TUBINGAL MAC 81 can be used undiluted but as well diluted with deionised water or with another organic softening agent before application.

## **Application fields**

TUBINGAL MAC 81 can be applied on all kinds of textile materials by padding. The product is stable to washing and dry cleaning and active in pH values of 5.0 – 5.5.

## **Application recommendations**

Application quantities of TUBINGAL MAC 81 depend on the applied material and required effect.

### Padding method:

10.0 – 40.0 g/l TUBINGAL MAC 81

Drying: 130 ° C  
pH : 5.0 – 5.5

Note: The pH range of the padding liquor must be set to pH 5.0 – 5.5 and these values must be kept along the whole application.

**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.

**Edition:** April, 2024.

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