
TUBINGAL U 17

Character	Pseudo-cationic special softener for all types of fibres
Chemical character	Fatty acid condensation product containing silicone with special additives
Appearance	Light beige liquid
Ionic character	Non-ionic / pseudo-cationic
pH-value	2.8 – 5.2
Specific weight at 20 °C	Approx. 1.0
Stabilities	<p>TUBINGAL U 17 is stable to hard water, acids, alkalis and electrolytes in the usual industrial concentrations. The product can be combined with non-ionic and cationic substances.</p> <p>TUBINGAL U 17 is sensitive to frost; after having been exposed to temperatures essentially below the freezing point, irreversible changes result.</p>
Storage	The product will hold for at least six months if stored properly.

Properties

TUBINGAL U 17 is a universal softener for all types of fibres. Due to its low-foaming character and resistance towards shearing forces, the product can be used in jet dyeing machines.

TUBINGAL U 17 has the following advantages:

- soft, voluminous handle
- high surface smoothness
- improved lustre in case of a following calender process
- improved sewability so that sewing damages will be avoided in garment industry
- softening agent for OE-yarns
- TUBINGAL U 17 can be applied for white goods; preliminary trials are recommended because there is the risk of a loss of whiteness.

Application technique

Diluting instruction

TUBINGAL U 17 can be diluted with cold or warm water in any ratio.

Fields of application

TUBINGAL U 17 can be used in the exhaust procedure and on the padding mangle.

The product is mainly used for pure cotton article as well as for fibre blends of cotton and synthetics.

The application amounts depend on the effect of handle desired and usually they are as follows :

Exhaust method (jet, winch beck, rotary dyeing machine) :

1.0 – 4.0 %	TUBINGAL U 17
Liquor ratio	1:6 – 1:15
pH	5.5
	20 min. at 40 °C

Padding mangle :

10 – 30 g/l	TUBINGAL U 17
Pick-up	80 %

Application in resin finishing liquors :

40 – 60 g/l	REAKNITT FF
10 – 15 g/l	MgCl ₂ . 6H ₂ O
20 g/l	POLYAVIN PEN
20 – 40 g/l	TUBINGAL U 17
Pick-up	80 %
condensate	40 – 60 second 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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