# LIOSIL<sup>®</sup> TS 405 E

# Silicone Fluid Emulsions, functional

WACKER

 $\rm LIOSIL^{@}~TS~405~E$  is a microemulsion of a functional silicone fluid that was developed specially as a softener for the tissue industry.  $\rm LIOSIL^{@}~TS~405~E$  has a low solid content.

#### **Properties**

Owing to its special structure and orientation on cellulose fibers, LIOSIL<sup>®</sup> TS 405 E is characterized by an very good soft hand at good hydrophilicity.

- good soft hand combined with excellent hydrophilicity
- dilutable with water, but we recommend direct use
- low viscosity
- high substantivity on cellulose fibers
- microemulsion





#### **Technical data**

#### **General Characteristics**

Property	Condition	Value	Method
Solid content	-	approx. 8 %	Microwave oven
Density	20 °C	approx. 1 g/cm <sup>3</sup>	DIN 51757
Viscosity, dynamic	25 °C	approx. 50 mPa⋅s	Brookfield
рН	23 °C	approx. 5	Indicator strips

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

## Applications

Tissue

## Application details

The product amount should be tailored to the particular tissue being used. Typically the amount of product applied on the tissue is in the range from 1 and 5 g/m<sup>2</sup>. For the application of LIOSIL<sup>®</sup> TS 405 E common technologies like roll coating, slot coating, spraying, or rotor damping systems are recommended. Aerosol formation has to be avoided. In case of aerosol formation special protective measures are required (see material safety data sheet).

The use of the emulsion is recommended for all conventional tissue types such as toilet paper, facial tissue, handkerchiefs or cosmetic wipes, which may benefit from a certain soft feel. The emulsion can be combined with other organic softeners or well being additives, too, provided an adequate compatibility test has been performed. If substantial foaming occurs during processing, we recommend our SILFOAM<sup>®</sup> antifoam agents.

#### Packaging and storage

#### Storage

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

# Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site http://www.wacker.com.

QR Code LIOSIL® TS 405 E



#### For technical, quality or product safety questions, please contact:

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