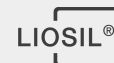
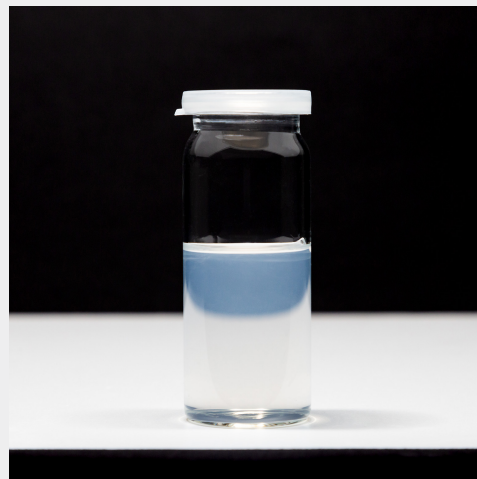


# LIOSIL® TS 913 E



## Silicone Fluid Emulsions, functional

LIOSIL® TS 913 E is a water based microemulsion of a functional silicone fluid that was developed specially as a softener for the tissue industry. The exact composition of the LIOSIL® TS 913 E is proprietary, however the blend is based completely on INCI listed cosmetic ingredients and LIOSIL® TS 913 E is produced according to the requirements of good manufacturing practices for cosmetics.



## Properties

Owing to its special structure and orientation on cellulose fibers, LIOSIL® TS 913 E is characterized by an excellent soft hand combined with a transfer effect and a very good hydrophilicity.

Key benefits are:

- an excellent soft hand including a transfer effect
- a very good hydrophilicity
- a very easily dilutable with water
- a high substantivity on cellulose fibers

## Technical data

### General Characteristics

Property	Condition	Value	Method
Chemical characterization	-	Polydimethylsiloxane with aminoalkyl groups - (emulsion in water) - .	-
Density	20 °C	1 g/cm <sup>3</sup>	DIN 51757
Solubility in water	completely miscible	-	-
Viscosity, dynamic	25 °C   Brookfield, spindle 1 / 50 rpm	0 - 100 mPa·s	Brookfield
pH	-	4 - 6	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® TS 913 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 SILFAR® S 184.

As LIOSIL® TS 913 E is a water based emulsion the product is very easy to handle. If necessary, LIOSIL® TS 913 E can be removed from machine parts without any difficulty using just water or a water based alkaline cleaning solution.

## 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 913 E



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

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The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.