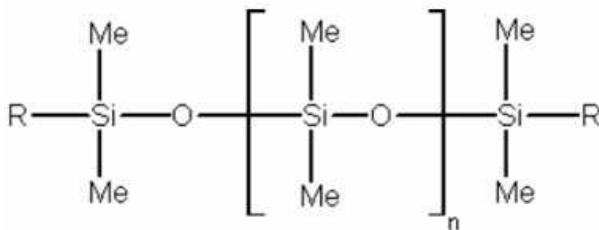


BELSIL® DM 50

DIMETHICONE

Product description

Structural formula:



R = Me

BELSIL® DM 50 is a linear, non-reactive, unmodified polydimethylsiloxane. BELSIL® DM 50 is characterized by low surface tension and a high spreading coefficient. Due to their flexible polymer backbone, dimethicones have high permeability to gases (e.g. water vapor, oxygen), which allows respiration of the skin.

Application

BELSIL® DM 50 is widely used in a highly varied

range of personal-care formulations.

Formulations with BELSIL® DM 50 have better spreading properties and can be easily distributed on the skin. In these formulations, it imparts a hydrophobic, protective but breathable barrier to the skin, simultaneously minimizing stickiness. It reduces whitening and imparts a soft emolliency to the skin.

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>.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		colorless, clear
Viscosity, dynamic at 25 °C		50 mPa.s
Viscosity, kinematic at 25 °C	DIN 53018	approx. 50 mm ² /s
Density at 25 °C		0,96 g/cm ³
Refractive index at 25 °C		1,402
Aggregate state		liquid
Surface tension		0,021 N/m
Flash point	ISO 2592	> 250 °C
INCI name		Dimethicone

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

Additional information

Solubility

Ingredient	BELSIL® DM 50	Ingredient	BELSIL® DM 50
Cyclopentasiloxane	✓	Triglycerides	
		Castor oil	-
Dimethicone		Olive oil	-
BELSIL® DM 1 Plus	✓	Wheatgerm oil	-
BELSIL® DM 10	✓	Lanolin oil	-
BELSIL® DM 350	✓		
BELSIL® DM 12500	✓	Alcohols	
BELSIL® DM 60000	✓	Octyldodecanol	-
		Propylene glycol	-
Mineral oils		Isopropanol	✓
C9-13 isoparaffins	✓	Ethanol	✓
Mineral oil (high-visc.)	-	Glycerin	-
Mineral oil (low-visc.)	-		
		Esters / Ester oils	
Water	-	Ethyl acetate	✓
		C12-15 alkyl benzoates	-
		Isopropyl myristate	✓
		Oleyl oleate	-

✓ = soluble (> 10%)

p = partially soluble (1 - 10%)

- = insoluble

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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BELSIL® is a trademark of Wacker Chemical Corporation.

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

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