

Wacker-Belsil® DM 100

Dimethicone

Characteristics

Wacker-Belsil® DM 100 is a linear, non-reactive, unmodified polydimethylsiloxane with a viscosity of 100 mm²/s.

Wacker-Belsil® DM 100 is characterized by low surface tension and a high spreading coefficient. Due to its flexible polymer backbone, dimethicones have high permeability to gases (eg, water vapour, oxygen), which allows respiration of the skin.

Application

Wacker-Belsil® DM 100 is widely used in a highly varied range of personal-care formulations.

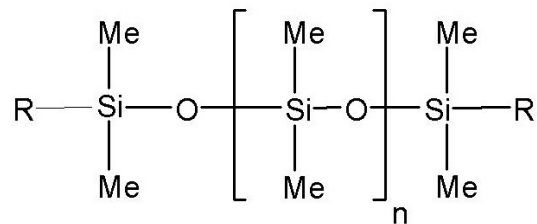
The medium-viscosity dimethicone Wacker-Belsil® DM 100 are used for example as solvents for high viscose dimethicones or dimethiconols. This allows the formulator to adjusted the needs of his products. It imparts a hydrophobic, protective, but breathable barrier to the skin and improve spreading characteristics. It reduces whitening and soaping effects during rub-in and imparts lubricity, softness, and emolliency. Wacker-Belsil® DM 100 enhances shine and reduces stickiness and improves the tactile impression of personal care applications.

Storage

Wacker-Belsil® DM 100 has a shelf life of at least 12 months when stored between 5°C and 40°C in the tightly closed original container. The 'Best use before end' date of each batch appears 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

Chemical structure



R = Me

intended use must be checked for quality assurance reasons.

Safety information

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

Product data

Property	Unit	Wacker-Belsil® DM 100	Property	Unit	Wacker-Belsil® DM 100
Appearance	clear , colourless		Physical state		liquid
Viscosity , approx.	[mm ² /s]	100	Surface tension at 25°C, approx.	[mN/m]	20,9
Density at 25°C, approx.	[g/cm ³]	0,963	Flash point ISO 2592	[°C]	>275
Refractive index at 25°C, approx.		1,403	INCI name		Dimethicone

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

Additional information

Solubility

Ingredient	Wacker-Belsil® DM 100	Ingredient	Wacker-Belsil® DM 100
Silicones		Triglyceride	
Wacker-Belsil® CM 040	✓	Castor Oil	•
Wacker-Belsil® DM 1 plus	✓	Olive Oil	•
Wacker-Belsil® DM 10	✓	Wheatgerm Oil	•
Wacker-Belsil® DM 350	✓	Lanolin Oil	•
Wacker-Belsil® DM 12500	✓		
Wacker-Belsil® DM 60000	✓	Alcohols	
		Octyldodecanol	•
		Propylene Glycol	•
		Isopropanol	P
		Alcohol	•
Mineral Oil		Glycerin	•
C9-13 Isoparaffin	✓	Water	
Mineral Oil, high-visc.	•		•
Mineral Oil, low-visc.	•		
Ester Oil			
Ethyl Acetate	✓		
C12-15 Alkyl Benzoate	•		
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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For technical, quality, or product safety questions, please contact:

Wacker Chemie AG
WACKER-SILICONES
Hanns-Seidel-Platz 4
D-81737 Munich, Germany

www.wacker.com
info.silicones@wacker.com

Viscosity range of Wacker-Belsil® DM fluids and their surface tension.

