

# Wacker-Belsil® DM 20

Dimethicone

## Characteristics

Wacker-Belsil® DM 20 is a linear, non-reactive, unmodified polydimethylsiloxane with a viscosity of 20 mm<sup>2</sup>/s.

Wacker-Belsil® DM 20 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 20 is widely used in a highly varied range of personal-care formulations.

The low-viscosity dimethicone Wacker-Belsil® DM 20 is mainly used in skin-care, sunscreen, and antiperspirant/deodorant compositions.

In these formulations, 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 20 enhances shine and reduces stickiness.

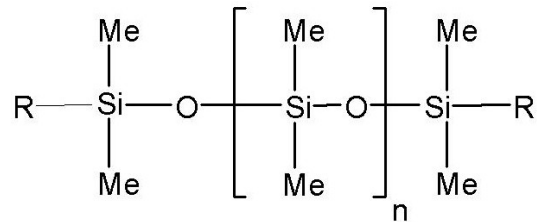
## Storage

Wacker-Belsil® DM 20 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 intended use must be checked for quality assurance reasons.

**R = Me**

## Chemical structure



## 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 20	Property	Unit	Wacker-Belsil® DM 20
Appearance	clear , colourless		Physical state		liquid
Viscosity , approx.	[mm <sup>2</sup> /s]	20	Surface tension at 25°C, approx.	[mN/m]	20,6
Density at 25°C, approx.	[g/cm <sup>3</sup> ]	0,945	Flash point ISO 2592	[°C]	>230
Refractive index at 25°C, approx.		1,401	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 20	Ingredient	Wacker-Belsil® DM 20
<b>Silicones</b>		<b>Triglyceride</b>	
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	✓	<b>Alcohols</b>	
		Octyldodecanol	•
<b>Mineral Oil</b>		Propylene Glycol	•
C9-13 Isoparaffin	✓	Isopropanol	✓
Mineral Oil, high-visc.	•	Alcohol	✓
Mineral Oil, low-visc.	✓	Glycerin	•
<b>Ester Oil</b>		<b>Water</b>	
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:

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

