

Wacker-Belsil® DM 300 000

Dimethicone

Characteristics

Wacker-Belsil® DM 300 000 is a linear, non-reactive, unmodified polydimethylsiloxane with a viscosity of 300 000 mm²/s.

Wacker-Belsil DM 300 000 is characterized by low surface tension and a high spreading coefficient. Due to its flexible polymer backbone, dimethicones have high permeability to gases (e.g., water vapor, oxygen), which allows respiration of the skin.

Applications

High viscosity Wacker-Belsil DM 300 000 is widely used in a highly varied range of personal care formulations.

Dimethicones provide a hydrophobic, protective, but breathable barrier to the skin, imparting softness and emolliency. They improve spreading characteristics, enhance luster, and prevent stickiness in skin care as well as in color cosmetics compositions.

In hair care products, high viscosity dimethicones are among the most commonly used conditioning additives. They improve both wet and dry combability, impart humidity resistance and a soft feel to the hair, and enhance shine.

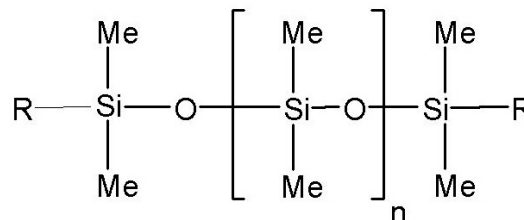
Storage

Wacker-Belsil DM 300 000 has a shelf life of at least 12 months when stored at room temperature 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.

Chemical Structure



R=Me

Safety information

Detailed safety information is contained in each material data safety sheet, which can be obtained from our sales offices.

Product data

| Properties | Characteristics |
|--|------------------|
| Appearance | Clear, colorless |
| Surface tension at 25°C, approx., [mN/m] | 21.8 |
| Viscosity, approx., [mm ² /s] | 300 000 |
| Solidifying point, DIN 51 794, [°C] | -40 |
| Density at 25°C, approx., [g/cm ³] | 0.97 |
| Flash point, ISO 2592, [°C] | >320 |
| Refractive index at 25°C, approx. | 1.4037 |
| INCI name | Dimethicone |

Additional Information

Solubility

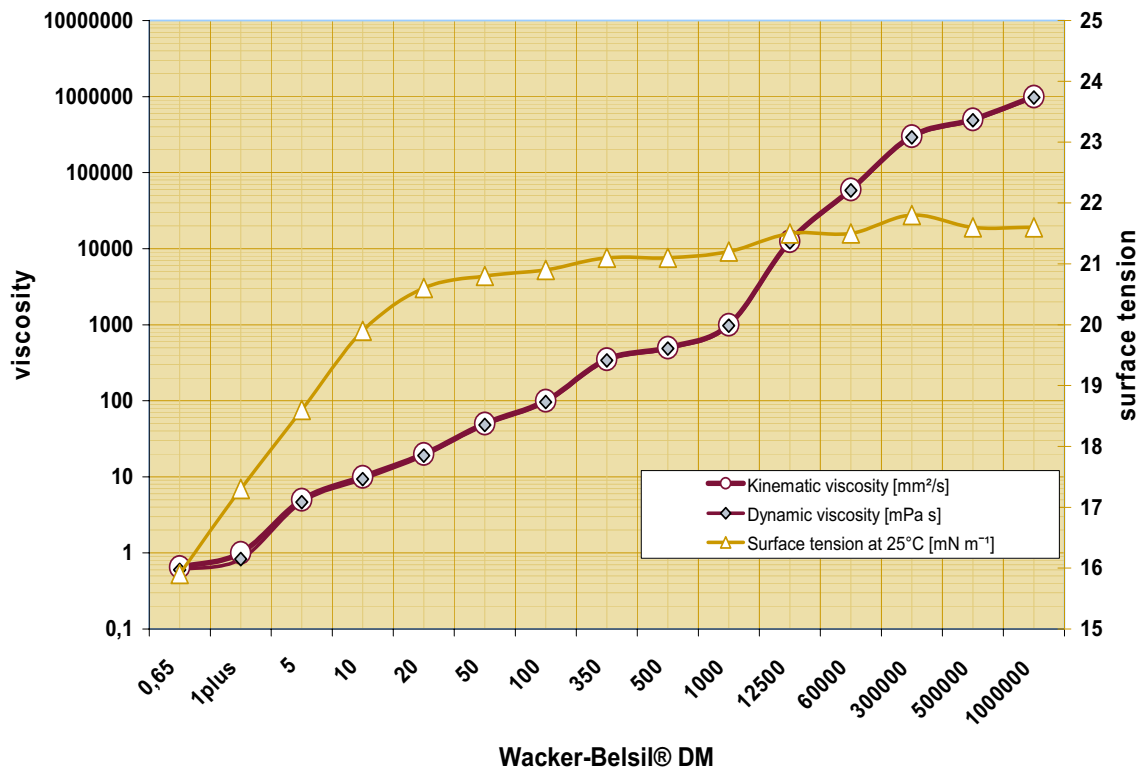
| Ingredient | Wacker-Belsil DM 300 000 | Ingredient | Wacker-Belsil DM 300 000 |
|--------------------------|-----------------------------|----------------------|-----------------------------|
| Silicones | | Triglycerides | |
| Wacker-Belsil® CM 040 | ✓ | Castor Oil | • |
| Wacker-Belsil® DM 1 plus | ✓ | Olive Oil | • |
| Wacker-Belsil® DM 10 | ✓ | Wheatgerm Oil | • |
| Wacker-Belsil® DM 350 | ✓ | Lanolin Oil | • |
| Wacker-Belsil® DM 12500 | ✓ | | |
| Wacker-Belsil® DM 60000 | ✓ | Alcohols | |
| | | Octyldodecanol | • |
| Mineral Oil | | Propylene Glycol | • |
| C9-13 Isoparaffin | ✓ | Isopropanol | • |
| Mineral Oil, high-visc. | • | Alcohol | • |
| Mineral Oil, low-visc. | • | Glycerin | • |
| | | | |
| Ester Oil | | Water | |
| Ethyl Acetate | ✓ | | • |
| C12-15 Alkyl Benzoate | • | | |
| Isopropyl Myristate | ✓ | | |
| Oleyl Oleate | • | | |

✓ = Soluble (> 10%)

P = Partially soluble (1 – 10%)

Δ = insoluble

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



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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 ANSI/ISO/ASQ Q9001 and ANSI/ISO 14001.

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