BELSIL® DM 300000

DIMETHICONE

Product description
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BELSIL® DM 300000 is a linear, non-reactive, unmodified polydimethylsiloxane with a viscosity of 300000 mm^2/s.

BELSIL® DM 300000 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.

Application

High viscosity BELSIL® DM 300000 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

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

For specific information regarding safe handling of this material, please refer to the Material Safety Data Sheet.

Specifications

Typical Property values are not intended for use in the preparation of specifications. Please contact Wacker Silicones for assistance and recommendations before writing specifications on this product.

Contact:

Wacker Chemical Corporation
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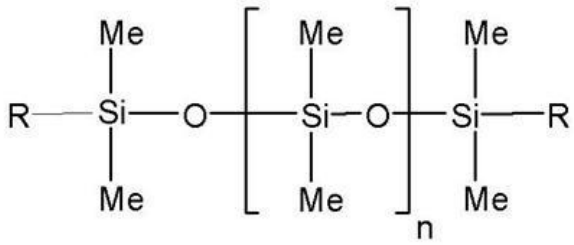
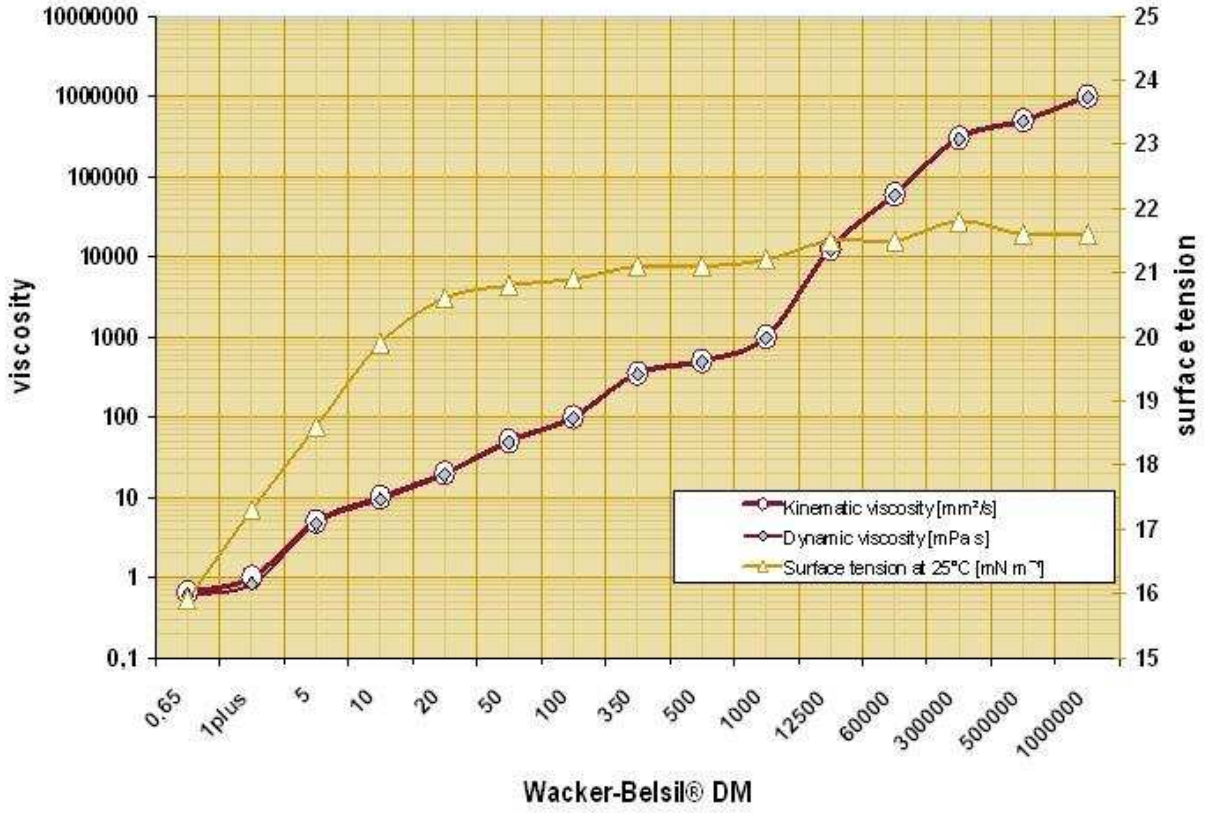
Chemical Structure



Product data

Typical general characteristics	Inspection Method	Value
Appearance		clear, colorless
Surface tension at 25℃, approx., [mN/m]		21.8
Viscosity		approx. 300000 mm^2/s
Solidifying point, DIN 51 794, [℃]		-40
Density		0.953 - 0.977 g/cm^3
Flash point	ASTM D93	> 238 - 263 ℃
Refractive index at 25℃, approx.		1.4037
INCI name		Dimethicone

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



Additional Information

Solubility

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

✓ = Soluble (> 10%) P = Partially soluble (1 – 10%) Δ = insoluble

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

Wacker Chemical Corporation
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