

BELSIL DM 2

DIMETHICONE

Product description

BELSIL DM 2 is a colorless, transparent silicone fluid of low viscosity. BELSIL DM 2 shows a volatility at room temperature which is comparable to a blend of decamethylcyclopentasiloxane and dodecamethylcyclohexasiloxane. The non-polar solvent has a good compatibility profile with vegetable oils, mineral oils, synthetic ester oils and selected UV-filters. It is also miscible with silicone fluids, lower alcohols and further solvents frequently utilized in personal care applications.

BELSIL DM 2 is non-miscible with water. Due to its low heat of vaporization, BELSIL DM 2 evaporates from the skin without producing a cooling effect.

Application

BELSIL DM 2 can be used as volatile solvent or carrier system. It provides a characteristically light skin feel and supports to uniformly distribute actives and pigments in skin and color cosmetic applications. It is improving rub-in properties, reducing stickiness and imparting lubricity.

In hair-care products, BELSIL DM 2 can be used as volatile ingredient to support easy spreading of functional ingredients and high-viscosity fluids as used

for example in hair tip fluids. BELSIL DM 2 may be blended in all proportions with other dimethicones and cyclomethicones.

BELSIL DM 2 can also be utilized as a volatile delivery system in antiperspirant and deodorant formulations as alternative to cyclopentasiloxane.

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 and color		colorless, clear
Viscosity, kinematic at 25 °C	DIN 51562	2,0 mm ² /s
Density at 25 °C, at 1013 hPa	DIN 51575	0,872 g/cm ³
Refractive index at 25 °C		1,391
Surface tension		approx. 0,018 N/m
Flash point	ISO 2719	89 °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 2	Ingredient	BELSIL® DM 2
Mineral oils		Triglycerides	
C9-13 isoparaffins	✓	Olive oil	✓
Mineral oils (high-visc.)	✓	Wheatgerm oil	✓
Mineral oils (low-visc.)	✓	Avocado oil	✓
		Almond oil	✓
Esters / Ester oils		Lanolin oil	-
Ethyl acetate	✓		
C12-15 alkyl benzoates	✓	Alcohols	
Isopropyl myristate	✓	Octyldodecanol	✓
Decyl oleate	✓	Oleyl alcohol	✓
		Propylene glycol	p
Ketones		Isopropanol	✓
Bezophenone-3	-	Ethanol	✓
4-Methylbenzylide camphor	-	Glycerin	-
		PPG-5-Laureth-5	p
Water	-		
		Silicone oil	
Emulsifiers		Cyclopentasiloxane	✓
PEG-150 Distearate	-	Dimethicone (BELSIL® DM 10)	✓
		Dimethicone (BELSIL® DM 350)	✓

✓ = soluble (> 10%)

p = partially soluble (1 - 10%)

- = insoluble

The data presented in this medium 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 medium 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 information provided by us does 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 product 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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