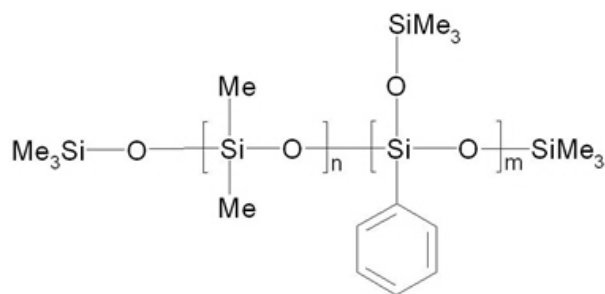


# BELSIL® PDM 1000

TRIMETHYLSILOXYPHENYL DIMETHICONE

## Product description

Structural formula:



BELSIL® PDM 1000 is a phenyl-modified polydimethylsiloxane characterized by having a higher refractive index than dimethicone fluids (1.38-1.40). It offers clear advantages over dimethicones with regard to skin feel, shine and compatibility with other cosmetic raw materials.

## Application

BELSIL® PDM 1000 is used in all kinds of cosmetics formulations, but mostly in hair care compositions and

color cosmetic due to their shine-enhancing benefits. BELSIL® PDM 1000 reduces the stickiness of formulations containing acrylic acid polymers. It is an excellent emollient in skincare products, imparts a very pleasant feel to the skin, and provides water-repellency.

In antiperspirant formulations, phenyl-modified silicones are employed as a refractive-index match to promote the formation of clear products.

## 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		clear, colorless
Viscosity, kinematic at 25 °C	DIN 51562	approx. 1000 mm <sup>2</sup> /s
Refractive index at 25 °C		1,461
Density at 25 °C, at 1013 hPa	DIN 51757	approx. 1,07 g/cm <sup>3</sup>
Flash point	ISO 2592	approx. 285 °C
INCI name		Trimethylsiloxyphenyl Dimethicone

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

## Additional information

## Solubility

Ingredient	BELSIL® PDM 1000	Ingredient	BELSIL® PDM 1000
<b>Mineral oils / waxes</b>		<b>Emulsifiers / ethoxylated oils</b>	
C9-13 isoparaffin	✓	PEG-75 Lanolin oil	-
Mineral oil (high-visc.)	-	PEG-7 Glyceryl Cocoate	-
Mineral oil (low-visc.)	p	PPG-5-Laureth-5	-
<b>Esters / Ester oils</b>		<b>Alcohols &amp; water</b>	
Ethyl acetate	✓	Octyl dodecanol	-
C12-15 alkyl benzoate	✓	Oleyl alcohol	-
Isopropyl myristate	✓	Isopropanol	✓
Decyl oleate	✓	Ethanol	✓
Oleyl oleate	p	Propylene glycol	-
		Glycerol	-
<b>Triglycerides</b>		Water	-
Castor oil	-		
Olive oil	-	<b>Silicone fluids</b>	
Wheatgerm oil	-	Cyclopentasiloxane	✓
Lanolin oil	-	Cyclopentasiloxane, Dimethicone (BELSIL® CM 1000)	✓
Caprylic/Capric triglycerides	✓	Disiloxane (BELSIL® DM 0.65)	✓
		Dimethicone (BELSIL® DM 1 Plus)	✓
<b>UV-Filters</b>		Cyclopentasiloxane, Caprylyl Dimethicone, Ethoxy Glycoside (BELSIL® SPG 128 VP)	✓
Ethylhexyl Methoxycinnamate	-		
Ethylhexyl Salicylate	✓	Cyclopentasiloxane, Dimethicone / Vinyltrimethylsiloxysilicate crosspolymer (BELSIL® RG 100)	✓

✓ = soluble (&gt; 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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