

*State of the art ingredients · fast friendly service*

## Wacker-Belsil® PDM 20

Trimethylsiloxyphenyl Dimethicone (proposed)

### Characteristics

Wacker-Belsil® PDM 20 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, sheen and compatibility with other cosmetic raw materials.

### Applications

Wacker-Belsil PDM 20 is used in all kinds of cosmetic formulations, but mostly in hair care compositions, due to the shine-enhancing benefits.

Wacker-Belsil PDM 20 reduces the stickiness of formulations containing acrylic acid polymers. It is an excellent emollient in skin care products, that imparts a very pleasant feel to the skin, and provides water repellent and moisture barrier function.

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

### Storage

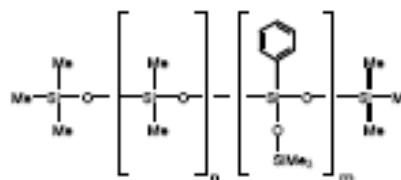
Wacker-Belsil PDM 20 has a shelf life of at least 12 months when stored at room temperature in the tightly closed original container. The 'Best use before end' date of each batch appears on the product label.

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.

### Product data

Appearance	Clear, colorless
Viscosity at 25°C, approx. [mm <sup>2</sup> /s]	20
Refractive index at 25°C, approx.	1,437
Density at 25°C, approx., [g/cm <sup>3</sup> ]	1.0
Flash point, approx., [°C]	170
INCI name	Trimethylsiloxyphenyl Dimethicone (proposed)

Chemical Structure



### Safety information

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

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**Additional Information**

Solubility

Ingredient	Wacker-Belsil PDM 20	Ingredient	Wacker-Belsil PDM 20
<b>Mineral Oils / Waxes</b>		<b>Emulsifiers/ethoxylated Oils</b>	
C9-13 Isoparaffin	₃	PEG-75 Lanolin Oil	•
Mineral Oil, high-visc.	•	PEG-7 Glyceryl Cocoate	•
Mineral Oil, low-visc.	•	PPG-5-Laureth-5	₃
<b>Ester Oil</b>		<b>Alcohols</b>	
Ethyl Acetate	₃	Octyldodecanol	₃
C12-15 Alkyl Benzoate	₃	Oleyl Alcohol	₃
Isopropyl Myristate	₃	Isopropanol	₃
Decyl Oleate	₃	Alcohol	₃
Oleyl Oleate	₃	Glycerol	•
		Propylene Glycol	•
<b>UV-Filters</b>		Water	
Ethylhexyl Methoxycinnamate	₃		
Ethylhexyl Salicylate	₃	<b>Silicone Fluids</b>	
		Wacker-Belsil® CM 040	₃
<b>Triglycerides</b>		Wacker-Belsil® CM 1000	₃
Castor Oil	P	Wacker-Belsil® DM 0.65	₃
Olive Oil	₃	Wacker-Belsil® DM 1 plus	₃
Wheatgerm Oil	₃	Wacker-Belsil® DM 10-500000	₃
Lanolin Oil	₃	Wacker-Belsil® SPG 128 VP	₃
Caprylic/Capric Triglycerides	₃	Wacker-Belsil® TMS 3069 VP	₃

₃ = Soluble (> 10%)

P = Partially soluble (1 – 10%)

• = insoluble