

Wacker-Belsil® PDM 1000

Trimethylsiloxyphenyl Dimethicone (proposed)

Characteristics

Wacker-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 regards to skin feel, gloss and compatibility with other cosmetic raw materials.

Applications

Wacker-Belsil PDM 1000 is used in all kinds of cosmetic formulations, but mostly in hair care compositions due to its shine enhancing benefits.

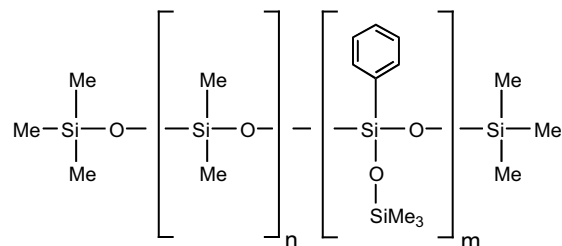
Wacker-Belsil PDM 1000 reduces the stickiness of formulations containing acrylic acid polymers. It is an excellent emollient in skin care products, imparts a very pleasant feel to the skin, and provides water-repellency.

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

Storage

Wacker-Belsil PDM 1000 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



Safety Information

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

Product data

Properties	Characteristics
Appearance	Clear, colorless
Viscosity at 25°C, approx., [mm ² /s]	1000
Refractive index at 25°C, approx.	1.461
Density at 25°C, approx., [g/cm ³]	1.04
Flash point, approx., [°C]	300
INCI name	Trimethylsiloxyphenyl Dimethicone (proposed)

Additional Information

Compatibility

Ingredient	Wacker-Belsil PDM 1000	Ingredient	Wacker-Belsil PDM 1000
Mineral Oil/Waxes		Emulsifiers/Ethoxylated Oils	
C9-13 Isoparaffin	✓	PEG-75 Lanolin Oil	•
Mineral Oil, high visc.	•	PEG-7 Glyceryl Cocoate	•
Mineral Oil, low visc.	P	PPG-5-Laureth-5	•
Ester Oils		Alcohols & Water	
Ethyl Acetate	✓	Octyl Dodecanol	•
C12-15 Alkyl Benzoate	✓	Oleyl Alcohol	•
Isopropyl Myristate	✓	Isopropanol	✓
Decyl Oleate	✓	Alcohol	✓
Oleyl Oleate	P	Propylene Glycol	•
		Glycerol	•
UV-Filters		Water	
Ethylhexyl Methoxycinnamate	•		•
Ethylhexyl Salicylate	✓	Silicone Fluids	
		Wacker-Belsil® CM 040	✓
		Wacker-Belsil® DM 0.65	✓
Triglycerides		Wacker-Belsil® DM 1 plus	✓
Castor Oil	•	Wacker-Belsil® DM 10	✓
Olive Oil	•	Wacker-Belsil® SPG 128 VP	✓
Wheatgerm Oil	•	Wacker-Belsil® RG 100	✓
Lanolin Oil	•		
Caprylic/Capric Triglycerides	✓		

✓ = Soluble (> 10%)

P = Partially soluble (1 – 10%)

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

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