

Wacker-Belsil® RG 100

Cyclopentasiloxane, Dimethicone/vinyltrimethylsiloxysilicate crosspolymer

Characteristics

Wacker-Belsil® RG 100 resin gel is an organosiloxane polymer dispersed in volatile siloxanes. It is a semisolid and semitransparent gel that functions as a thickener in formulations while delivering smooth application. Under shear stress, Wacker-Belsil RG 100 thins and allows easy incorporation of cosmetic ingredients, like pigments.

Special Characteristics

Wacker-Belsil RG 100 is easy to distribute on skin. After drying, it leaves a silicone resin film on the skin, which increases water resistance of formulations.

Applications

Wacker-Belsil RG 100 is a non-emulsifying resin gel that is supplied as a 20% active solution in cyclopentasiloxane. Compared to other elastomer gels, it provides a more substantive hydrophobic film, making it ideal for use in lipstick and foundation formulations to improve transfer resistance and to add a cushiony feel to powder formulations. Wacker-Belsil RG 100 makes cosmetics easier to apply by adding lubricity. It can be used to thicken the oil phase of emulsions or anhydrous cosmetic formulations.

Storage

Wacker-Belsil RG 100 has a shelf life of at least 6 months when stored in the originally sealed containers between 2°C and 38°C. 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.

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	Creamy, semitransparent
Solid content, [%]	20
Flash point, [°C]	79
Specific gravity, [g/cm ³]	0.97
Viscosity Brookfield, [mPas]	120,000
Yield stress, [Pa]	54
Texture analyzer hardness at 20 mm, [g]	20
INCI name	Cyclopentasiloxane, Dimethicone/vinyltrimethylsiloxysilicate crosspolymer

Additional Information

Compatibility

Ingredient	Wacker-Belsil RG 100	Ingredient	Wacker-Belsil RG 100
Mineral Oil/Waxes		Emulsifiers/Ethoxylated Oils	
Mineral Oil	•	PEG-7 Glyceryl Cocoate	•
Ester Oils		Alcohols & Water	
C12-15 Alkyl Benzoate	•	Propylene Glycol	D
Isopropyl Myristate	✓	Glycerol	D
Decyl Oleate	•	Alcohol	D
Oleyl Oleate	•	Ethanol	D
Dicaprylyl Ether	✓	Water	•
Ethylhexyl Stearate	✓	AlZrCl4 Gly & Propylene Glycol	D
Triglycerides		Silicone Fluids	
Castor Oil	•	Wacker-Belsil® CM 040	•
Lanolin Oil	•	Wacker-Belsil® DM 0.65	✓
Caprylic/Capric Triglycerides	•	Wacker-Belsil® DM 1 plus	✓
		Wacker-Belsil® DM 10	•
		Wacker-Belsil® PDM 20, 200, 1000	✓
UV-Filters		Wacker-Belsil® LDM 3107 VP	•
Ethylhexyl Methoxycinnamate	•		
Ethylhexyl Salicylate	•		

✓ = Soluble (> 10%)

P = Partially soluble (1 – 10%)

Δ = insoluble

D = Dispersible

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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