

# BELSIL® RG 100

CYCLOPENTASILOXANE, DIMETHICONE/VINYLTRIMETHYLSILOXYSILICATE CROSSPOLYMER

## Product description

BELSIL® RG 100 elastomer gel is an organosiloxane polymer dispersed in cyclopentasiloxane. It is a semitransparent gel that functions as a thickener in formulations while delivering smooth applications. Under shear stress BELSIL® RG 100 thins and allows easy incorporation of cosmetic ingredients like pigments.

## Special features

BELSIL® RG 100 is easy to distribute on skin and gives a nice, non-greasy, silky skin feel. Evaporation of the volatile silicones leave a non-tacky film which improves the water resistance of formulations.

## Application

BELSIL® RG 100 is a non-emulsifying elastomer gel that is supplied as a 20% active solution in cyclopentasiloxane. It provides a substantive hydrophobic film, making it ideal for use in sun care formulations. In lipsticks and foundations, it improves transfer resistance. It also can add a cushiony feel to powder formulations. 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.

## Processing

The viscosity may increase during storage, and agitation may be required before use if stored for an extended period of time.

## Storage

The "Best use before end date" of each batch is shown on the Certificate of Analysis. Storage beyond the date specified on the Certificate of Analysis 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

For specific information regarding safe handling of this material, please refer to the Material Safety Data Sheet.

## Specifications

Typical property values are not intended for use in the preparation of specifications. Please contact Wacker Silicones for assistance and recommendations before writing specifications on this product.

## Contact:

Wacker Chemical Corporation  
3301 Sutton Road  
Adrian, MI 49221-9397  
Tel: 888-922-5374  
info.usa@wacker.com

www.wacker.com

## Product data

Typical general characteristics	Inspection Method	Value
Appearance		creamy, semitransparent
Solids content		20 %
Flash point	ASTM D93	63 °C
Density		0.94 g/cm <sup>3</sup>
Viscosity, dynamic at 25 °C		125000 mPa s
INCI name		Cyclopentasiloxane, Dimethicone/Vinyltrimethylsiloxy silicate Crosspolymer

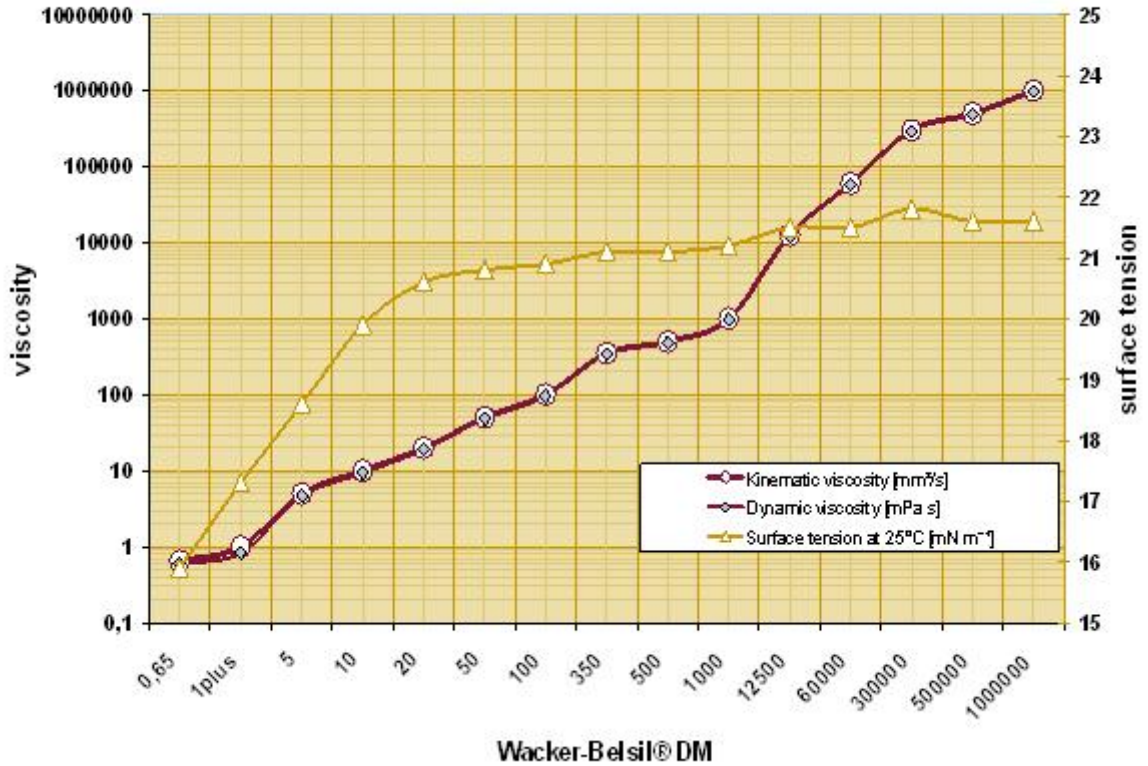
These figures are only intended as a guide and should not be used in preparing specifications.

**Additional information**

**Solubility**

Ingredient	Wacker-Belsil® RG 100	Ingredient	Wacker-Belsil® RG 100
<b>Mineral Oils/Waxes</b>		<b>Emulsifiers &amp; ethoxylated oils</b>	
Mineral Oil	Δ	PEG-7 Glyceryl Cocoate	Δ
<b>Ester Oils</b>		<b>Alcohols &amp; Water</b>	
C12-15 Alkyl Benzonate	Δ	Propylene Glycol	P
Isopropyl Myristate	✓	Glycerol	P
Decyl Oleate	Δ	Alcohol	P
Oleyl Oleate	Δ	Ethanol	P
Dicaprylyl Ether	✓	Water	Δ
Ethylhexyl Stearate	✓		
<b>Triglycerides</b>		<b>Silicone fluids</b>	
Castor Oil	Δ	Cyclopentasiloxane (Wacker-Belsil® CM 040)	✓
Lanolin Oil	Δ	Disiloxane (Wacker-Belsil® DM 0.65)	✓
Caprylic/Capric Triglycerides	Δ	Dimethicone (Wacker-Belsil® DM 1 plus)	✓
		Dimethicone (Wacker-Belsil® DM 10)	Δ
		Trimethylsiloxyphenyl Dimethicone (Wacker-Belsil® PDM 20)	✓
<b>UV-filters</b>			
Ethylhexyl Methoxycinnamate	Δ		
Ethylhexyl Salicylate	Δ		
✓ = soluble (> 10%)		P = partially soluble (1 – 10%)	
		Δ = insoluble	

**Viscosity range of Wacker-Belsil DM fluids and their surface tension**



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:

Wacker Chemical Corporation  
3301 Sutton Road  
Adrian, MI 49221-9397, USA