

BELSIL® RG 90

INCI: ISODODECANE (AND) VINYLDIMETHYL/TRIMETHYLSILOXYSILICATE STEARYL DIMETHICONE CROSSPOLYMER

Product description

BELSIL® RG 90 elastomer gel is a crosslinked high-molecular weight organosiloxane polymer dispersed in isododecane. It is delivered as a transparent to semitransparent gel.

Special features

BELSIL® RG 90 is easy to distribute on skin and gives a nice, silky skin feel. The evaporation of isododecane leaves a non-tacky film which improves transfer- and water resistance of cosmetic formulations. Elastomer gel BELSIL® RG 90 shows thixotropic behaviour. It undergoes thinning under shear stress and allows easy incorporation of cosmetic ingredients like pigments.

Application

BELSIL® RG 90 is a non-emulsifying elastomer gel that is supplied as a 20% active elastomer in isododecane. It can be formulated in O/W, W/O and W/Si-emulsions as well as in anhydrous systems. The preferred way of incorporation into a formulation is to disperse BELSIL® RG 90 in suitable oils and solvents. Alternatively, it can be added to the finished formulation. It provides a silky skin feel combined with hydrophobic film forming properties. These benefits are applicable in skin care, sun care and color cosmetic formulations. BELSIL® RG 90 can improve water repellence of sun screen formulations. In color cosmetic applications like lipsticks and foundations, it improves transfer resistance. It also adds a cushiony feel to powder formulations like eye shadows.

Processing

The viscosity may increase during storage, and

agitation may be required before use if stored for an extended period of time. Due to the thixotropic behaviour, the initial viscosity may be reduced by mechanical impact like stirring.

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

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		Transparent to semi transparent gel
Solid content		20 %
Flash point	ISO 3679	48 °C
Density		0.82 g/cm ³
Viscosity, dynamic at 25 °C		30000 mPa.s
INCI name		Isododecane (and) Vinyl dimethyl/trimethylsiloxysilicate stearyl dimethicone crosspolymer

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

Additional information

Solubility

Ingredient	BELSIL® RG 90	Ingredient	BELSIL® RG 90
Mineral oils / waxes		Triglycerides	
Mineral oil (low-visc.)	-	Ricinus communis (castor) seed oil	-
Hydrogenated Polydecene	p	Olea europaea (olive) fruit oil	-
Ester oils		Alcohols & water	
C12-15 alkyl benzoate	p	Propylene glycol	-
Isopropyl myristate	✓	Glycerol	-
Decyl oleate	p	Isopropanol	✓
Oleyl oleate	-	Ethanol	✓
Diethylhexyl carbonate	✓	Isostearyl alcohol	-
Diisobutyl adipate	✓	Water	-
Emulsifiers / ethoxylated oils		Silicone fluids	
PEG-7 Glyceryl cocoate	-	Disiloxane (BELSIL® DM 0.65)	✓
		Dimethicone (BELSIL® DM 1 Plus)	✓
UV-Filters		Dimethicone (BELSIL® DM 10)	✓
Ethylhexyl Methoxycinnamate	-	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 20)	✓
Ethylhexyl Salicylate	-	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 350 VP)	✓

✓ = soluble (> 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

WACKER is a trademark of Wacker Chemie AG.
BELSIL® is a trademark of Wacker Chemical Corporation.

For technical, quality, or product safety questions, please contact:

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