

BELSIL® EG 6000

DIMETHICONE AND DIVINYLDIMETHICONE/DIMETHICONE CROSSPOLYMER

Product description

BELSIL® EG 6000 elastomer gel is a silicone copolymer network blended with a volatile dimethicone. It appears as a transparent, colorless gel providing a very pleasant sensation during the application and after use. BELSIL® EG 6000 can act as a thickener in formulations. In addition it exhibits shear thinning behavior, which allows formulating cosmetic products that spread easily during application and facilitates the incorporation of pigments into a formulation.

Special features

BELSIL® EG 6000 is easy to distribute on skin and gives a very smooth, non-greasy, silky skin feel. BELSIL® EG 6000 leaves a non-tacky film which improves matte effect on skin. BELSIL® EG 6000 has the ability to act as a thickening agent.

Application

BELSIL® EG 6000 is typically added to the oil or silicone phase of a formulation or to an already formed emulsion. The product should be worked in thoroughly to yield optimal results. When BELSIL® EG 6000 is diluted with solvents the viscosity of the product is significantly decreasing and can hence be easily adjusted. The performance properties of BELSIL® EG 6000 make it a very versatile ingredient for various skin care, color cosmetic products. It also can add a cushiony feel to moisturizing creams, eye gels, foundations, concealers and BB creams.

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skin care and color cosmetic products. It also can add a cushiony feel to moisturizing creams, eye gels, foundations, concealers and BB creams. BELSIL® EG 6000 can be used to thicken the oil phase of emulsions or anhydrous cosmetic formulations. In pressed powder cosmetics it acts as binder. Other typical applications of BELSIL® EG 6000 are styling products, conditioners, deodorants and much more.

Processing

BELSIL® EG 6000 is a high viscous material and is highly shear-thinning. Upon storage, the viscosity of BELSIL® EG 6000 may increase. However as the viscosity data vary significantly depending on how the gel is stirred prior the measurement. We recommend to thoroughly mix BELSIL® EG 6000 before any viscosity measurement. If the product is stored for an extended period of time, we also recommend to well stir the product before use.

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

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

Product data

Typical general characteristics	Inspection Method	Value
Appearance and color		clear to slightly translucent gel
Elastomer Content		13 %
Flash point	ISO 2719	89 °C
Density at 20 °C	ISO 1183-1 A	0,88 - 0,92 g/cm ³
Viscosity, dynamic at 25 °C	DIN 53018	75000 - 125000 mPa.s
INCI name		Dimethicone and Divinyldimethicone/Dimethicone Crosspolymer

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

Compatibility BELSIL® EG 6000

Compatibility evaluated using 90/10 blend of solvent/phenylfluid at RT (23°C)

Type of solvent	INCI	Result
Mineral Oil	Mineral Oil	NC
	Hydrogenated Polydecene	NC
	C9-C13 Isoparaffin	C
Ester Oils	Isopropyl Myristate	SH
	C12-15 Alkyl Benzoate	NC
	Decyl Oleate	NC
	Oleyl Oleate	NC
	Dicaprylyl Ether	SH
	Diethylhexyl Carbonate	SH
	Diisobutyl Adipate	NC
Triglycerides	Castor Oil	NC
	Olive Oil	NC
	Wheatgerm Oil	NC
	Lanolin Oil	NC
UV-Filters	Ethylhexyl Metoxycinnamate	NC
	Ethylhexyl Salicylate	NC
Alcohols & Water	Glycerin	NC
	Propylene Glycol	NC
	Isopropanol	NC
	Ethanol	NC
	Water	NC
Silicone Fluids	Disiloxane (BELSIL® DM 0.65)	C
	Dimethicone (BELSIL® DM 1 Plus)	C
	Dimethicone (BELSIL® DM 5)	C
	Dimethicone (BELSIL® DM 10)	C
	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 20)	C
	Phenyl Trimethicone (BELSIL® PF 22)	SH
C = Clear (miscible)		
SH = Slightly Hazy		
H = Hazy		
NC = Not Compatible		

Compatibility BELSIL® EG 6000

Compatibility evaluated using 50/50 blend of solvent/phenylfluid at RT (23°C)

Type of solvent	INCI	Result
Mineral Oil	Mineral Oil	H
	Hydrogenated Polydecene	H
	C9-C13 Isoparaffin	C
Ester Oils	Isopropyl Myristate	SH
	C12-15 Alkyl Benzoate	H
	Decyl Oleate	NC
	Oleyl Oleate	NC
	Dicaprylyl Ether	SH
	Diethylhexyl Carbonate	SH
	Diisobutyl Adipate	H
Triglycerides	Castor Oil	NC
	Olive Oil	NC
	Wheatgerm Oil	NC
	Lanolin Oil	NC
UV-Filters	Ethylhexyl Metoxycinnamate	NC
	Ethylhexyl Salicylate	NC
Alcohols & Water	Glycerin	NC
	Propylene Glycol	NC
	Isopropanol	NC
	Ethanol	NC
	Water	NC
Silicone Fluids	Disiloxane (BELSIL® DM 0.65)	C
	Dimethicone (BELSIL® DM 1 Plus)	C
	Dimethicone (BELSIL® DM 5)	C
	Dimethicone (BELSIL® DM 10)	C
	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 20)	SH
	Phenyl Trimethicone (BELSIL® PF 22)	SH
C = Clear (miscible)		
SH = Slightly Hazy		
H = Hazy		
NC = Not Compatible		

The data presented in this medium 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 medium 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 information provided by us does 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 product 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:

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