

BELSIL® EG 1200



Elastomer Gels (INCI)

BELSIL® EG 1200 elastomer gel is a non-emulsifying silicone gel composed of a cross-linked silicone elastomer copolymer network which has been swollen with a non-volatile, low viscosity (5cSt) dimethicone. BELSIL® EG 1200 has a rather high viscosity but can be easily further diluted with silicone fluids or organic solvents allowing a broad flexibility when formulating cosmetic products. BELSIL® EG 1200 is a clear to translucent gel, which provides pleasant sensory properties.

INCI Dimethicone, Dimethicone Crosspolymer



Properties

BELSIL® EG 1200 can add consistency and a nice silky texture to cosmetic formulations. Due to its rather high viscosity BELSIL® EG 1200 can act as a thickener in formulations while delivering a smooth application. Typical for elastomer gels, BELSIL® EG 1200 exhibits a shear-thinning behavior. Cosmetic formulations containing BELSIL® EG 1200 can be spread easily during application and leave a very pleasant silky feel. In addition, BELSIL® EG 1200 acts as a carrier for fragrances allowing a slow release of the fragrance.

Technical data

General Characteristics

Property	Condition	Value	Method
Density	20 °C 1013 hPa	0.92 g/cm ³	ISO 1183-1 A
Flash point	-	> 110 °C	ISO 3679
Viscosity, dynamic	25 °C	300000 - 500000 mPa·s	DIN 53019

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

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- After-Sun
- Anti-Aging Products
- Deodorants
- Eye Make-up
- Face & Body Care
- Hair Care
- Lip Make-up
- Make-up
- Make-up Foundation
- Personal Care
- Skin Care
- Sun Care
- Sunscreen

Application details

BELSIL® EG 1200 is added to the oil or silicone phase of a formulation. When formulating a W/O emulsion the elastomer gel can also be added to the already formed emulsion. In both cases, a good homogenization is needed to ensure that the elastomer gel is well mixed into the oil phase or the final emulsion. A short time of stirring is sufficient, but as the cross-linked silicone elastomer network is stable, also longer homogenization steps are possible. When BELSIL® EG 1200 is diluted with silicone fluids or organic solvents, the viscosity of the product decreases significantly and can be easily adjusted.

During the application BELSIL® EG 1200 shows a pleasant silky sensory profile. It also provides a nice texture and a comfortable cushion effect especially after the application. These performance properties make it of BELSIL® EG 1200 a versatile ingredient for various Skin Care, Color Cosmetic and Hair Care products. Typical applications for BELSIL® EG 1200 are facial creams and lotions, foundations and moisturizing creams. BELSIL® EG 1200 can be used to thicken the oil phase of emulsions or anhydrous cosmetic formulations in pressed powder cosmetics it acts as binder.

Processing:

BELSIL® EG 1200 is a high viscose material. However due its highly shear-thinning behavior, it can be pumped with suitable equipment. Upon storage, the apparent viscosity BELSIL® EG 1200 may increase. However, the viscosity data can vary significantly depending on how the product is stirred prior to measurement. WACKER recommends to thoroughly mix BELSIL® EG 1200 before any viscosity measurement. If the product is stored for an extended period of time, it should be re-mixed prior to use.

Packaging and storage

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>.

QR Code BELSIL® EG 1200



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

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