

BELSIL® REG 1102



Elastomer Gels (INCI)

BELSIL® REG 1102 resin elastomer gel is a non-emulsifying silicone copolymer network blended with a non-volatile, low viscosity dimethicone. It is a transparent gel, which provides a very pleasant sensory property both during application and afterwards. BELSIL® REG 1102 can act as a thickener in formulations while delivering a smooth application. In addition it exhibits shear-thinning behavior. This attribute allows for formulation of cosmetic products that spread easily during application and facilitates the incorporation of pigments into a formulation.

**INCI Dimethicone, Dimethicone/Vinyltrimethylsiloxysilicate
Crosspolymer**



Properties

BELSIL® REG 1102 is easy to distribute on skin and gives a unique silky feel. The incorporation of a silicone resin into the elastomer structure of BELSIL® REG 1102 provides a long lasting non-tacky film, which improves the water and transfer resistance of formulations. BELSIL® REG 1102 acts as a carrier for fragrances and allows a slow release of the fragrance.

Technical data

General Characteristics

Property	Condition	Value	Method
Appearance	-	transparent	-
Density	20 °C 1013 hPa	0.93 g/cm ³	EN/ISO 1183
Elastomer content	-	~ 16 %	-
Flash point	-	> 140 °C	ISO 2592
Solid content	-	100 %	-
Viscosity, dynamic	25 °C	75000 - 125000 mPa·s	DIN 53018

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® REG 1102 is added to the oil or silicone phase of a formulation or most preferably to an already formed emulsion. The product should be dispersed to yield optimum results, but short times of stirring are sufficient. When BELSIL® REG 1102 is diluted with solvents, the viscosity of the product decreases significantly and hence can be easily adjusted. The performance properties of BELSIL® REG 1102 make it a versatile ingredient for various Skin Care, Color Cosmetic and Hair Care products. It provides a substantive hydrophobic film, making it ideal for use in sun care formulations. In lipsticks and foundations, it improves transfer resistance. BELSIL® REG 1102 also imparts a cushiony feel to moisturizing creams, sunscreens lotions, eye gels, foundations, concealers and BB creams. BELSIL® REG 1102 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® REG 1102 include mascara, cleansing products, styling products, conditioners, deodorants and much more.

Processing:

BELSIL® REG 1102 is a high viscosity material and is highly shear-thinning, so it is ease to pump with suitable equipment. Upon storage, the apparent viscosity BELSIL® REG 1102 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® REG 1102 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® REG 1102



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

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