

# BELSIL® REG 1103 B



## Elastomer Gels (INCI)

BELSIL® REG 1103 B hydrophilic resin elastomer gel is a silicone copolymer network blended with a non-volatile, low viscosity dimethicone and a silicone polyglucoside. The silicone polyglucoside contained in this blend is a nonionic surfactant with an HLB of approximately 6 - 7. This allows the gel to take up water and act as a secondary emulsifier. BELSIL® REG 1103 B is a transparent gel, which provides a very pleasant sensory property - both during application and afterwards. BELSIL® REG 1103 B can act as a thickener in formulations while delivering a smooth application. It also exhibits shear-thinning behavior which 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 and Caprylyl Dimethicone Ethoxy Glucoside**



## Properties

BELSIL® REG 1103 B is easy to distribute on skin and gives a unique silky feel. The incorporation of polyglucoside into the elastomer blend allows the gel to be self-emulsifying, take up water, and provide a more hydrated skin feel. BELSIL® REG 1103 B can also be utilized to give formulations a water-break effect.

## Technical data

### General Characteristics

Property	Condition	Value	Method
Appearance	-	clear, colorless - light yellow	-
Density	20 °C   1013 hPa	0.94 g/cm <sup>3</sup>	not specified
Elastomer Content	-	approx 17 %	-
Flash point	-	156 °C	ISO 2719

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 Foundation
- Personal Care
- Skin Care
- Sun Care
- Sunscreen

## Application details

BELSIL® REG 1103 B is added to the oil or silicone phase of a formulation. The product should be dispersed to yield optimum results, but short times of stirring are sufficient. When BELSIL® REG 1103 B is diluted with solvents, the viscosity of the product decreases significantly and hence can be easily adjusted. The performance properties of BELSIL® REG 1103 B make it a versatile ingredient for various Skin Care, Color Cosmetic and Hair Care products. BELSIL® REG 1103 B also imparts a cushiony and light skin feel to moisturizing creams, sunscreens lotions, eye gels, foundations, concealers and BB creams. BELSIL® REG 1103 B 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 1103 B include mascara, cleansing products, styling products, conditioners, deodorants and much more.

### Processing:

BELSIL® REG 1103 B is a high viscosity material and is highly shear-thinning, so it is easy to pump with suitable equipment. Upon storage, the apparent viscosity BELSIL® REG 1103 B 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 1103 B before any viscosity measurement. If the product is stored for an extended period of time, it should be homogenized 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 1103 B



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

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