**BELSIL® EG 5**

**Elastomer Gels (INCI)**

BELSIL® EG 5 elastomer gel is a silicone copolymer network blended with a cyclopentasiloxane. It appears as a transparent gel providing a very pleasant sensorial sensation during the application and after use. BELSIL® EG 5 can easily be diluted with low viscous silicones, to adjust the viscosity as required. BELSIL® EG 5 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.

INCI Cyclopentasiloxane, Dimethicone/ Vinyl Dimethicone Crosspolymer

**Properties**

BELSIL® EG 5 is easy to distribute on skin and gives a nice, non-greasy, silky skin feel. BELSIL® EG 5 leaves a non-tacky film which improves matte effect on skin. It provides dry smoothness and light, silky non-greasy powdery skin feel. BELSIL® EG 5 has the ability to act as a thickening agent.
## Technical data

### General Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>-</td>
<td>clear to slightly translucent</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>gel</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>20 °C</td>
<td>1013 hPa</td>
<td>0.9 - 1.2 g/cm³</td>
</tr>
<tr>
<td>Elastomer content</td>
<td>-</td>
<td>13 - 15 %</td>
<td>-</td>
</tr>
<tr>
<td>Flash point</td>
<td>-</td>
<td>75 °C</td>
<td>ISO 3679</td>
</tr>
<tr>
<td>INCI name</td>
<td>-</td>
<td>Cyclopentasiloxane, Dimethicone/Vinyl Dimethicone Crosspolymer</td>
<td>-</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>25 °C</td>
<td>200000 - 400000 mPa·s</td>
<td>specific method</td>
</tr>
</tbody>
</table>

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

- Skin Care
- Eye Make-up
- Hair Styling
- Conditioners
- Make-up Foundation
- Sun Care
- Lip Make-up

### Application details

BELSIL® EG 5 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 5 is diluted with solvents the viscosity of the product is significantly decreasing and can hence be easily adjusted. The performance properties of BELSIL® EG 5 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. BELSIL® EG 5 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 5 are in mascaras, cleansing products, styling products, conditioners, deodorants and much more.

### Processing

BELSIL® EG 5 is a high viscous material, however it is strongly shear thinning and can hence easily be pumped using suitable equipment. Upon storage, the viscosity of BELSIL® EG 5 may apparently increase. However as the viscosity data vary significantly depending on how the gel is stirred, we recommend to thoroughly mix BELSIL® EG 5 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.
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 5

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

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