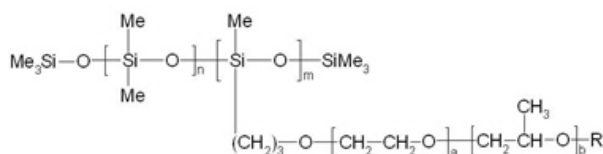


# BELSIL® DMC 6031

PEG/PPG-25/25 DIMETHICONE

## Product description

Structural formula:



BELSIL® DMC 6031 is a copolymer of polydimethylsiloxane and organic glycol.

## Application

In hair-fixative compositions, it acts as resin plasticizer, reducing brittleness and flaking of organic resins. In shampoos and shower gels, this silicone surfactant

helps to stabilize the foam, confers mild conditioning benefits on hair and skin and promotes formation of clear products. In creams and lotions, it acts as co-emulsifiers providing oil-in-water emulsification benefits, improving skin feel and product stability.

## 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                          |                   | yellowish, liquid         |
| Density at 25 °C                    | DIN 51757         | 1,03 g/cm <sup>3</sup>    |
| Refractive index at 25 °C           |                   | 1,452                     |
| Cloud point (1 % solution in water) |                   | 41 - 43                   |
| Flash point                         | ISO 2719          | > 100 °C                  |
| INCI name                           |                   | PEG/PPG-25/25 Dimethicone |

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

## Additional information

## Solubility

| Ingredient                  | BELSIL®<br>DMC 6031 | Ingredient  | BELSIL®<br>DMC 6031 |
|-----------------------------|---------------------|---|---------------------|
| <b>Mineral oils / waxes</b> |                     | <b>Emulsifiers / ethoxylated oils</b>                               |                     |
| C9-13 isoparaffin           | -                   | PEG-75 Lanolin oil  | -                   |
| Mineral oil (high-visc.)    | -                   | PEG-7 Glyceryl Cocoate  | ✓                   |
| Mineral oil (low-visc.)     | -                   | PPG-5-Laureth-5   | ✓                   |
|                             |                     |   |                     |
| <b>Ester oils</b>           |                     | <b>Alcohols &amp; water</b>   |                     |
| Ethyl acetate               | p                   | Octyl dodecanol   | ✓                   |
| C12-15 alkyl benzoate       | p                   | Oleyl alcohol   | ✓                   |
| Isopropyl myristate         | ✓                   | Propylene glycol  | -                   |
| Decyl oleate                | ✓                   | Isopropanol   | ✓                   |
| Oleyl oleate                | -                   | Ethanol   | ✓                   |
|                             |                     | Glycerol  | -                   |
| <b>Triglycerides</b>        |                     | Water   | ✓                   |
| Castor oil                  | ✓                   |   |                     |
| Olive oil                   | -                   | <b>Silicone fluids</b>  |                     |
| Wheatgerm oil               | -                   | Cyclopentasiloxane  | -                   |
| Lanolin oil                 | -                   | Disiloxane (BELSIL® DM 0.65)  | -                   |
|                             |                     | Dimethicone (BELSIL® DM 100)  | -                   |
| <b>UV-Filters</b>           |                     | Trimethylsiloxyphenyl Dimethicone<br>(BELSIL® PDM 20, 350 VP, 1000) | -                   |
| Ethylhexyl Methoxycinnamate | ✓                   |   |                     |
| Ethylhexyl Salicylate       | ✓                   |   |                     |
| Benzophenone-3              | ✓                   |   |                     |
| 4-Methylbenzylidene camphor | ✓                   |   |                     |

✓ = soluble (&gt; 10%)

p = partially soluble (1 - 10%)

- = insoluble

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products 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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