

# BELSIL GB 2050

DIMETHICONE, DIMETHICONOL

## Product description

Structural formula:



R = OH or Me

BELSIL GB 2050 is a blend of low-viscosity dimethicones and a high-molecular dimethiconol. Due to its composition, it combines the properties of the low-viscosity fluids and the extremely high-viscosity dimethiconol. The excellent spreading of the low-viscosity dimethicones allows a good distribution of the high-viscosity conditioning agent dimethiconol.

## Application

BELSIL GB 2050 is used in hair care, skin care and sun care applications. In skin care formulations it provides a water-resistant, but breathable non-occlusive protection barrier. This provides good substantivity and fixation of active

ingredients. It provides lubricious feeling and a longer play time in skin care formulations.

Use of BELSIL GB 2050 in Hair Care products yields sleek, shiny hair. Damaged hair regains a natural, healthy appearance. Wet and dry combability are improved, and further damage to the hair cuticles is prevented. It is also widely used in hairtip fluids. Here we recommend to dilute BELSIL GB 2050 with a suitable solvent to adjust the viscosity of the final formulation.

## 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		colorless
Viscosity, dynamic at 25 °C	Brookfield	approx. 9000 mPa.s
Refractive index at 25 °C		1,403
Density at 25 °C, at 1013 hPa	DIN 51757	0,966 g/cm <sup>3</sup>
Silicone content		100 %
INCI name		Dimethicone, Dimethiconol

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

**Additional information**
**Solubility**

Ingredient	BELSIL® GB 2050	Ingredient	BELSIL® GB 2050
<b>Mineral oils</b>		<b>Alcohols</b>	
Hydrogenated Polydecene	-	Oleyl alcohol	-
Mineral Oil (high-visc.)	-	Isopropanol	-
Mineral Oil (low-visc.)	-	Ethanol	-
		Glycerin	-
<b>Ester / Ester oils</b>		<b>Cyclopentasiloxane</b>	✓
Diethylhexyl Carbonate	✓		
C12-15 Alkyl Benzoate	-	<b>Disiloxane</b>	
Isopropyl Myristate	✓	BELSIL® 0.65	✓
Decyl Oleate	-		
Ethylhexyl Salicylate	-	<b>Silicone fluids</b>	
<b>Triglycerides</b>		BELSIL® DM 5	✓
Castor Oil	-	BELSIL® DM 10	✓
Olive Oil	-	BELSIL® DM 100	✓
		BELSIL® PDM 20	✓
Water	-	BELSIL® PDM 1000	-

✓ = soluble (&gt; 10%)

p = partially soluble (1 - 10%)

- = insoluble

The data presented in this medium 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 medium 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 information provided by us does 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 product 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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