

# BELSIL® SPR 45 VP

POLYPHENYLSILSESQUIOXANE

## Product description

BELSIL® SPR 45 VP is a solvent-free phenyl silicone resin. This product is produced for use as a film former in cosmetic applications.

## Special features

BELSIL® SPR 45 VP combines the good film forming properties of silicone resins with high gloss and shine. Due to the high refractive index caused by the phenyl groups, BELSIL® SPR 45 VP provides up to 50 % higher gloss than standard silicone resins.

## Application

These special properties predestine BELSIL® SPR 45 VP as a raw material for color cosmetics, skin care and sun care products.

## Storage

Maximum temperature allowed during storage and transportation:  
30 °C

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 flakes
Refractive index (82 °C, liquid)		1,55
Refractive index (25°C, film)		1,57
Softening point		50 - 70 °C
INCI name		Polyphenylsilsesquioxane

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

## Additional information

## Solubility

Ingredient	BELSIL® SPR 45 VP	Ingredient	BELSIL® SPR 45 VP
<b>Mineral oils</b>		<b>Alcohols</b>	
Isododecane	-	Isostearyl alcohol	✓
C9-13 isoparaffin	-	Oleyl alcohol	✓
Hydrogenated Polydecene	-	Isopropanol	-
		Ethanol	✓
<b>Ester oils</b>			
C12-15 alkyl benzoate	✓	<b>Emulsifiers / ethoxylated oils</b>	
Isopropyl myristate	✓	PEG-7 Glyceryl cocoate	-
Dicaprylyl carbonate	p	Di-PPG-3 Myristyl ether adipate	-
Isopropyl palmitate	-		
Pentaerythritol tetraisostearate	-	<b>Silicone fluids</b>	
Phenethyl benzoate	✓	Cyclopentasiloxane	-
Ethyl lactate	✓	Disiloxane (BELSIL® DM 0.65)	-
Butyl lactate	✓	Dimethicone (BELSIL® DM 1 Plus)	-
Diisobutyl adipate	✓	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 20)	-
<b>UV-Filters</b>			
Ethylhexyl Methoxycinnamate	p		
Ethylhexyl Salicylate	-		

✓ = 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

WACKER is a trademark of Wacker Chemie AG.  
BELSIL® is a trademark of Wacker Chemie AG.

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

Wacker Chemie AG  
Hanns-Seidel-Platz 4  
81737 München, Germany  
info.silicones@wacker.com

www.wacker.com