

SiSiB® PC16275 Silicone Elastomer Gel

INCI NAME Cyclopentasiloxane (and) Dimethicone Crosspolymer

INTRODUCTION SiSiB® PC16275 is a translucent silicone elastomer gel composed of a high molecular weight crosslinked polydimethylsiloxane dispersed in cyclopentasiloxane. It provides a silky, velvet-like skin feel with a dry, non-greasy finish and slight sebum absorption. SiSiB® PC16275 is designed to thicken the oil phase of cosmetic formulations, reduce tackiness, and enhance the luxurious sensory properties of personal care products.

- ADVANTAGES**
- Translucent silicone elastomer gel
 - Provides silky, smooth, velvet-like skin feel
 - Light sebum absorption for a dry, non-greasy finish
 - Thickens oil phases and reduces tackiness
 - Enhances the performance of cyclomethicone-based formulations
 - Excellent spreadability without caking or lumping
 - Suitable for W/O, W/Si, O/W emulsions, and anhydrous formulations

PHYSICAL PROPERTIES

Color	Colorless to slightly yellow
Appearance	Translucent gel
Non-volatile content (% , w/w)	11-13
Viscosity (cP, 25°C)	300,000-550,000

Note: These values are typical and are not intended for use as specifications.

BENEFITS & APPLICATIONS SiSiB® PC16275 is widely used in skin care products, sun care formulations, color cosmetics, and styling products where superior texture, smoothness, and spreadability are desired.

RECOMMEND DOSAGE The recommended usage level is 1-20% of the total formulation weight.

USAGE GUIDELINES SiSiB® PC16275 can be directly dispersed into the oil phase (such as silicone oils or organic oils) by simple stirring. For emulsions, it is recommended to add it to the oil phase before emulsification. Pre-homogenizing the oil phase or slowly adding SiSiB® PC16275 with appropriate stirring ensures uniform dispersion. Post-addition is also possible if the viscosity of the dispersing phase allows sufficient mixing.

SiSiB® PC16275 Silicone Elastomer Gel

For easier handling, the viscosity can be reduced by blending with dimethicone, cyclomethicone, phenyl-modified silicones, esters, or hydrocarbons.

When heating is required, processing should be conducted in a closed system to prevent cyclomethicone loss, with the temperature not exceeding 60°C.

PACKING

SiSiB® PC16275 is supplied in 20Kg plastic pails or 200Kg steel drums.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

STORAGE

In the original unopened packaging, SiSiB® PC16275 has a shelf life of two year in a dry and cool place.

Thickening or slight lumping may occur; gentle stirring restores normal consistency.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.

Sustainable Innovation for a Better Future



SiSiB® PC16275 Silicone Elastomer Gel