

Silicone Gel

Specification Sheet

Description: Silicone gel is a non-emulsifying elastomer gel made of an organosiloxane polymer dispersed in cyclopentasiloxane. It is a semitransparent gel that functions as a thickener in formulations while delivering smooth applications. Solids content 20%. Dynamic viscosity at 25° C 125000 mPas.

CAS: 541-02-6, 556-67-2

INCI Name: Cyclopentasiloxane (and) Dimethicone/Vinyltrimethylsiloxysilicate Vrosspolymer

Composition: Cyclopentasiloxane, Dimethicone/Vinyltrimethylsiloxysilicate Crosspolymer

Appearance: Creamy, semitransparent gel

Benefits:

- Easily spreadable on skin and gives a nice, non-greasy, silky skin feel.
- Thick emollient that adds viscosity and substance to creams.
- Leaves a non-tacky film on the skin and improves water resistance of formulations.
- Can be used as primer under makeup.
- Allows easy incorporation of cosmetic ingredients like pigments.
- Provides a substantive hydrophobic film making it ideal for use in sun care formulations.

Use: Add to oil phase of formulas or after formulation is completed. Typical use level: 1-20% as emollient in emulsions. Can also be used pure directly on the skin. For external use only.

Applications: Creams, lotions, sunscreen, makeup, lipsticks, hair care.

Solubility: Insoluble in water, partly soluble in ethanol, glycerin, propylene glycol; fully soluble in dimethicone, cyclopentasiloxane, isopropyl myristate, dicaprylyl ether, and ethylhexyl stearate

Preservation: Preservative-free

Storage: Store in a closed container at a dry place at room temperature. Viscosity may increase during storage, and agitation may be required before use if stored for an extended period of time.

Country of Origin: USA

Raw material source: Dimethicone and dimethyldichlorosilane

Manufacture: In general, dimethicone crosspolymers are produced by crosslinking dimethicone polymeric chains via a hydrosilation reaction consisting of the addition of silicon hydride bonds (SiH) within the dimethicone polymer backbones across vinyl bonds within the selected crosslinking agent.

Animal Testing: Not animal tested.

GMO: GMO-free (does not contain plant-derived components).

Vegan: Does not contain animal-derived components.

HS Code: 3208100000