

## Iso-Dimethicone Copolymer

### Specification Sheet

**Description:** Non-crosslinked, non-alkyl containing silicone polymer blended with the hydrocarbon emollient isododecane.

**CAS:** 13475-82-6, 141-70-5, 156065-02-0

**INCI Name:** Isododecane, Bis-vinyl Dimethicone/Dimethicone Copolymer

**Composition:** Isododecane, Bis-vinyl Dimethicone/Dimethicone Copolymer

**Appearance:** Clear viscous gel

**Benefits:**

- Reduces tackiness and greasiness of skin care products.
- Gives matte and powdered after-feel to the skin.
- Designed to enhance the texture, gloss and film integrity of formulations.
- Provides fast drying, very light spreading and silky feel to emulsions and anhydrous products.

**Use:** Add to oil phase of formulas or after formulation is completed. If iso-dimethicone copolymer needs to be mixed with other silicones, it is best to mix it with dimethicone FLUID, cyclomethicone or isododecane. Importantly, the liquid silicone should be added to the iso-dimethicone copolymer only gradually under constant stirring by hand (a homogenizer or stick blender should not be used). Otherwise, the iso-dimethicone copolymer may bead out. Also, if iso-dimethicone copolymer needs to be mixed with plant oils, it is best to disperse it first with cyclomethicone before stirring in plant oils. Use level: up to 40% in color cosmetics, up to 30% in hair care, sun care and serums up to 5% and regular body care up to 10%. For external use only.

**Applications:** Color cosmetics, skin & hair care, serums, lotions & creams.

**Solubility:** Insoluble in water, miscible in oils.

**Preservation:** Preservative-free

**Storage:** Store in a closed container at a dry place at room temperature.

**Country of Origin:** USA

**Raw material source:** Dimethicone and isododecane

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**Manufacture:** Dimethicone crosspolymers (bis vinyl dimethicone/dimethicone copolymer) are produced by crosslinking dimethicone polymeric chains via a hydrosilation reaction. This reaction consists of the addition of silicon hydride bonds (SiH) within the dimethicone polymer backbones using platinum as catalyst. Isododecane is produced in a multi-step process to form highly branched C12 isoparaffins from petroleum mixed with mainly the 2, 2, 4, 6, 6-pentamethylheptane isomers.

**Animal Testing:** Not animal tested.

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

**Vegan:** Does not contain animal-derived components.

**HS Code:** 3910000000