

Phenyl Vinyl Silicone Oil

SK-PVO-006-43

Product Description:

● Phenyl vinyl silicone oil is an organic silicone linear polymer that incorporates both phenyl groups and vinyl functional groups. It combines the high-temperature resistance of phenyl groups with the reactivity of vinyl groups. Its unique molecular structure provides excellent thermal stability, optical transparency, and adjustable hardness, making it suitable for electronic encapsulation, high-temperature protection, and precision optical applications.

Technical Specifications:

Parameter	Typical Value	Test Method/Instrument
Appearance	Colorless to light yellow transparent liquid	Visual inspection
Viscosity (mPa.s/25℃)	5000~8000	GB/T 10247-2008
Vinyl Content (wt.%)	0.06~0.10	Sodium thiosulfate titration
Refractive Index (25℃)	1.43~1.44	GB/T 6488
Volatile content (%)	≤ 2.0	Drying at 150℃/3H

Typical Applications:

- Electronics: LED/COB encapsulation, PCB protective coatings, sensor potting.
- High-Temperature Applications: Aerospace engine component coatings, automotive heat-resistant seals.
- Resin Toughening: Improves brittleness and enhances heat resistance in epoxy and polyurethane systems.
- Industrial Protection: High-temperature adhesives, anti-corrosion coating substrates.

Packaging & Storage:

- Packaged in 200KG iron drums.
- Store at room temperature, dry, and away from light.
- Non-flammable and non-explosive, classified as non-hazardous for transport.
- Best used within 12 months from the production date. Re-inspect if expired.

Safety & Environmental:

- Ensure proper protective equipment is worn when handling this product. Refer to the Material Safety Data Sheet (MSDS) for details.
- Dispose of packaging according to local solid waste regulations.

Notes:

- The information provided in this document is based on reliable data from our company. Product specifications and performance may change without prior notice.
- The information is derived from laboratory and practical experience and is for reference only. Since conditions and methods of use are beyond our control, application testing is recommended before use.
- Some performance parameters of the product can be adjusted according to customer requirements. If needed, please contact our technical department engineers.