Phenyl-Terminated Hydrogen Silicone Oil

SK-PHO-03-55

Product Description:

●Phenyl hydrogen-containing silicone oil is an organic silicone linear polymer that incorporates both phenyl groups and active Si-H functional groups. It combines the high-temperature resistance and high refractive index of phenyl groups with the high reactivity of hydrogen. Its unique molecular structure provides excellent cross-linking ability, thermal stability, and optical properties, making it ideal for LED encapsulation, electronic potting, and high-temperature protection applications.

Technical Specifications：

Parameter	Typical Value	Test Method/Instrument
Appearance	Colorless to light yellow transparent liquid	Visual inspection
Viscosity (mPa.s/25℃)	50~150	GB/T 10247-2008
Hydroxyl content (wt.%)	0.3~0.35	HG/T 4804-2015
Refractive Index (25℃)	1.54~1.55	GB/T 6488
Volatile content (%)	≤ 3.0	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.

●Optical Components: Lenses, fiber optic coatings, display light-guide materials.

●Modified Organic Resins (e.g., epoxy, acrylic): Enhances heat resistance and flexibility.

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.