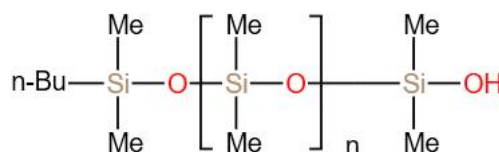


Butyl-Hydroxy Asymmetric Silicone Oil

SK-SHYO-50



Product Description:

● This product is a functional silicone oil with an asymmetric structure. One end of the molecular chain is hydrophobic butyl, while the other end is highly reactive hydroxyl, connected by flexible dimethylsiloxane segments. This unique structure provides both hydrophobic-hydrophilic amphiphilicity, interfacial activity, and controllable reactivity, making it widely used in surface treatment of inorganic fillers, polymer modification, and specialty lubrication.

Technical Specifications:

Test Item	Typical Data	Test Standard/Instrument
Appearance	Colorless to slightly yellow transparent liquid	Visual inspection
Viscosity (mPa.s/25℃)	10~100	GB/T 10247-2008
Molecular Weight (Mn)	1000~6000	ISO 11344
Volatile content (%)	≤2.0	Atmospheric drying (150℃/3H)

Typical Applications:

- **Material Modification:** Reacts with materials containing hydroxyl, epoxy, or isocyanate groups for chemical modification.
- **Filler Treatment:** Forms hydrogen bonds with hydroxyl groups on the surface of inorganic fillers, improving dispersion in non-polar materials.
- **Plasticizer:** Acts as a reactive plasticizer for condensation-type silicone rubber.

Packaging & Storage:

- SK-SHYO-50 is packaged in 200KG iron drums.
- Store at room temperature, dry, and away from light.
- This product is non-flammable and non-explosive, and should be transported as non-hazardous goods.
- Best used within 12 months from the production date. If expired, re-inspect and use only if qualified.

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.
