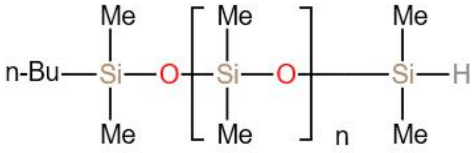
Product Datasheet

Butyl-Hydrogen Asymmetric Silicone Oil

SK-SHO-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 hydrogen, connected by flexible dimethylsiloxane segments. The Si-H group can undergo hydrosilylation reactions with compounds containing unsaturated bonds (e.g., alkenes, alkynes) or hydroxyl groups. This unique structure combines hydrophobicity and controllable reactivity, making it widely used in reactive plasticization of silicone rubber and polymer modification.

Technical Specifications:

Test Item	Typical Data	Test Standard/Instrument
Appearance	Colorless to slightly yellow transparent liquid	Visual inspection
Viscosity (mPa.s/25℃)	15~100	GB/T 10247-2008
Molecular Weight (Mn)	1000~6000	ISO 11344
Volatile content (%)	≤2.0	Atmospheric drying (150℃/3H)

Typical Applications:

●Functional Intermediate: Enables precise control of crosslinking density through single-point reactions, synthesizing customized silicone materials.

●Plasticizer: Single-end reaction avoids over-crosslinking. Can be used as a reactive plasticizer for addition-cure silicone rubber.

Packaging & Storage:

● SK-SHO-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.