Technical Data Sheet

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Silfluo LR-SRH Series

Hydride-Functional Hybrid Silicone Resin

Description:

Silfluo LR-SRH-08, LR-SRH-50, LR-SRH-80 and LR-SRH-95 are hydrogen-containing hybrid silicone resins. Their Si–H groups provide reactive sites for hydrosilylation with vinyl-functional silicones.
This hydride-functional hybrid silicone resin is prepared by co-hydrolysis and condensation of tetraalkoxysilanes with methyl- and hydride-containing siloxane precursors. Its structure comprises tetrafunctional Q units and monofunctional M units, with organofunctional T units incorporated to modify the resin properties. The resulting resin has a branched, three-dimensional siloxane framework containing reactive silicon-bonded hydrogen (Si–H) groups. These groups can participate in hydrosilylation reactions with vinyl-functional materials under suitable catalytic conditions.

Typical Physical Properties

Silfluo Code	**Silfluo LR-SRH-08**	**Silfluo LR-SRH-50**	**Silfluo LR-SRH-80**	**Silfluo LR-SRH-95**
Appearance	Colorless transparent liquid			
Dynamic Viscosity (25°C, mPa·s)	30–60	80–150	50–100	50–100
Hydrogen Content (wt.%)	0.07–0.10	0.45–0.55	0.75–0.85	0.90–1.00
Volatile Content (%)	≤5.0	≤3.0	≤3.0	≤3.0

Applications:

1. Addition-cure silicone formulations
Used as a resinous crosslinking component with vinyl-functional silicone polymers in platinum-catalyzed addition-cure systems.
2. Reactive silicone resin modification
Used to incorporate hydrogen-functional resin segments into silicone networks through Si–H addition reactions.

Packing

25 kg or 200 kg plastic drums

Safety and Storage

Shelf life: 12 months from the date of manufacture in original unopened containers at room temperature.
Transport as non-dangerous goods.

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