Technical Data Sheet

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Silfluo LS-614

Hexaphenyldisiloxane (Solid Phenyl Silicone)

Description:

Silfluo LS-614 is Hexaphenyldisiloxane, a solid-state phenylsilicone intermediate.

The molecule contains six phenyl groups on a single Si–O–Si disiloxane backbone, with triphenylsilyl groups at each end.

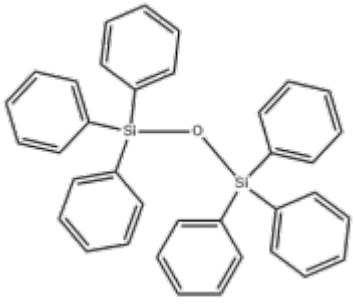
The high phenyl density raises refractive index and thermal stability of derived siloxane networks relative to lower-phenyl-content analogs.

Used as end-capping agent and structural modifier in phenyl silicone resin synthesis, high-RI optical encapsulant formulation, and specialty silicone fluid preparation.

Typical Technical Properties:

Silfluo Code:	LS-614
Chemical Name:	Hexaphenyldisiloxane
Synonyms:	Di(triphenylsilyl) oxide; 1,1,1,3,3,3-hexaphenyldisiloxane
CAS No. :	1829-40-9
EINECS No. :	217-381-6
Molecular Formula:	$C_{36}H_{30}OSi_2$
Molecular Weight:	534.79
Appearance:	White granular crystal
Purity (by GC, %):	98.0 min
Bulk Density (25°C, g/cm3):	0.75
Refractive Index (nD 25°C):	1.6825
Melting Point:	225°C
Flash Point:	>200°C

Chemical Structure:



Applications:

1. High-RI optical encapsulant synthesis

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Used as phenyl-rich end-capping agent in high-refractive-index silicone resin synthesis for LED packaging and optical encapsulant applications.

2. Phenyl silicone fluid end-capping

Used to terminate linear phenyl silicone chains in aerospace-grade damping fluids, diffusion pump oils, and high-temperature heat transfer fluids.

3. Electronic potting and encapsulation

Used as structural modifier in silicone potting compounds for high-power electronic modules requiring thermal stability and dielectric performance.

Packing

In 25kg pail and 100kg drum.

Safety and Storage

Store in a cool, dry, well-ventilated place away from direct sunlight, heat, and open flames. Keep containers tightly sealed.

Flash point >200°C; low flammability risk under normal storage and handling conditions.

Shipped as non-hazardous substance; refer to SDS before handling, storage, transport, and use.

Shelf life: 36 months from manufacture date in original unopened containers.

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