



Silfluo LS-PHIPS

Phenyl Enoxy Silane

Description:

Silfluo LS-PHIPS is a highly specialized, ultra-premium organosilane chemically identified as Phenyltriisopropenoxysilane. This unique molecule represents the absolute pinnacle of functional silane architecture by combining a highly stable phenyl group with three highly reactive, moisture-curing isopropenoxy (enoxy) groups.

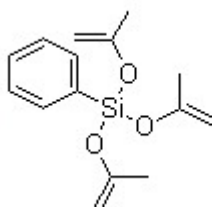
This strategic combination delivers a dual-performance profile unmatched by standard crosslinkers. The isopropenoxy groups ensure a 100% neutral, MEKO-free cure that releases only benign acetone, making it exceptionally safe and non-corrosive. Simultaneously, the bulky phenyl ring injects extreme thermal stability, brilliant UV resistance, and a significantly elevated refractive index into the cured polymer network.

LS-PHIPS is the absolute premier crosslinker and adhesion promoter for advanced, high-temperature RTV silicones, optical encapsulants, and heavy-duty composites operating in extreme environments.

Typical Physical Properties

Silfluo Code:	LS-PHIPS
Chemical Name:	Phenyltriisopropenoxysilane
Synonyms	Silane, tris[(1-methylethenyl)oxy]phenyl-;
CAS No. :	52301-18-5
EINECS No. :	411-340-8
Molecular Formula:	C ₁₅ H ₂₀ O ₃ Si
Molecular Weight:	276.40
Appearance:	Colorless transparent liquid
Purity (by GC, %):	95 min
Density (25°C, g/cm ³):	1.055-1.065
Refractive Index (n _{25/D}):	1.4900-1.5000
Boiling Point:	298.5°C
Flash Point:	135.2°C Closed Cup

Chemical Structure:



Applications:

Silfluo LS-PHIPS is strictly engineered for high-performance, eco-friendly reactive polymer systems:

Nanjing Silfluo New Material Co., Ltd.

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The offered information of this docs is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are fully satisfactory for end use. Suggestions of use shall not be taken as inducements to infringe any patent. Please confirm with us prior to any problems.

Technical Data Sheet



www.silfluosilicone.com

1. High-Temp De-Acetone RTV Silicones: Acts as the primary crosslinking agent in the manufacturing of specialty, extreme-temperature-resistant, MEKO-free silicone sealants used in automotive gaskets, aerospace components, and industrial ovens.
2. Optical & Electronic Encapsulants: The absolute material of choice for neutral-curing protective coatings and potting compounds used on sensitive printed circuit boards (PCBs) and high-brightness LED packaging where corrosion resistance and optical clarity are strictly mandated.
3. Advanced Composite Modifier: Utilized as a premium surface modifier and coupling agent for reinforcing mineral fillers in high-temperature thermosetting resins, significantly improving the composite's structural integrity under thermal stress.

Packing

In 25kg pail, 200kg drum and 1000kg IBC.

Safety and Storage

Keep in a cool, strictly dry, and well-ventilated environment. The shelf life is a minimum of 12 months from the date of manufacture when stored at or below 25° C in tightly sealed, original unopened containers.