



Silfluo LS-VIPS

Vinyl Functional Enoxysilane (De-Acetone Crosslinker)

Description

Silfluo LS-VIPS is Vinyltriisopropenoxysilane, an enoxy-functional silane.

The molecule contains one vinyl group and three isopropenoxo groups.

The isopropenoxo groups hydrolyze under moisture-curing conditions and release acetone as by-product.

Used in neutral de-acetone RTV silicone sealant systems.

Compared with acetoxy or oxime crosslinking systems, enoxy silanes provide a different neutral-cure route.

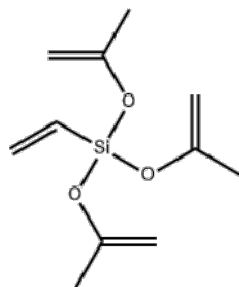
Cure behavior, by-product profile, corrosion behavior, and storage stability require verification in the target sealant system.

Used as crosslinking silane, moisture-reactive additive, or formulation component in neutral-cure RTV silicone sealants, silicone coatings, potting materials, and moisture-curable silicone systems.

Typical Physical Properties

Silfluo Code:	LS-VIPS
Chemical Name:	Vinyltriisopropenoxysilane
Synonyms	Tris(isopropenyl)oxyvinylsilane
CAS No. :	15332-99-7
EINECS No. :	239-362-1
Molecular Formula:	C ₁₁ H ₁₈ O ₃ Si
Molecular Weight:	226.34
Appearance:	Colorless to reddish transparent liquid
Density (ρ _{20°C} , g/cm ³)	0.924
Refractive Index (n _{25.D})	1.4310~1.4410
Purity:	97% min
Boiling Point (12mmHg):	73~75°C
Flash Point (Closed Cup):	88.2°C

Chemical Structure:



Applications

1. Neutral enoxy RTV silicone sealants

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Technical Data Sheet



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Used as crosslinking component in neutral de-acetone RTV silicone sealant systems. Verify skin-over time, through-cure, modulus, elongation, adhesion, and storage stability by formulation testing.

2. MEKO-free silicone sealant systems

Used in silicone sealant formulations where oxime-based crosslinkers are not preferred. Confirm MEKO-free or other regulatory compliance based on the complete formulation.

3. Electronic silicone coatings and potting systems

Used in moisture-curing silicone coatings and potting materials. Verify corrosion behavior, dielectric properties, cure profile, and compatibility with electronic components in the target system.

4. Moisture scavenging in silicone systems

Used as moisture-reactive component in anhydrous silicone formulations. Verify moisture control, viscosity stability, and shelf-life performance under customer packaging and storage conditions.

5. Silicone polymer modification

Used as reactive silane component for preparing enoxy-functional or moisture-curable silicone intermediates. Verify reaction conditions, by-product profile, and final polymer properties by synthesis testing.

Packaging

In 20kg pail, 190kg drum and 950kg IBC

Safety and Storage

Store in a cool, dry, well-ventilated environment. Keep away from direct sunlight, heat, sparks, and open flames.

The isopropenoxy groups hydrolyze on contact with moisture; keep in tightly sealed original containers.

Classified as non-hazardous combustible substance for standard transport.

Shelf life: 24 months minimum from manufacture date when stored at $\leq 25^{\circ}\text{C}$ in original tightly sealed unopened containers.