Technical Data Sheet

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Silfluo LS-MVOS

Bis-Oxime Silane (Low-Modulus Chain Extender)

Description:

Silfluo LS-MVOS is Vinylmethylbis(methylethylketoximino)silane, a difunctional oxime silane.
The molecule contains two hydrolyzable methylethylketoximino groups, one vinyl group, and one methyl group attached to silicon.
Compared with trifunctional oxime silanes, LS-MVOS provides lower hydrolyzable functionality, allowing adjustment of crosslink density in selected neutral-cure RTV silicone systems.
Used as modifying co-crosslinker or chain-extending silane together with trifunctional oxime crosslinkers in oxime-cure RTV formulations.
Effect on modulus, elongation, hardness, cure behavior, and storage stability requires verification in the target formulation.
Used in neutral-cure RTV silicone sealants, soft silicone elastomers, stress-relief potting materials, and customized oxime crosslinker blends.

Typical Physical Properties

Silfluo Code:	LS-MVOS
Chemical Name:	Vinylmethylbis(methylethylketoximino)silane
Synonyms	Vinylmethylbis(2-butanoneoximino)silane
CAS No. :	72721-10-9
Molecular Formula:	$C_{11}H_{22}N_2O_2Si$
Molecular Weight:	242.39
Appearance:	Colorless to light yellow transparent liquid
Purity (by GC, %)	97 min
Density (25°C, g/cm³)	0.910-0.930
Refractive Index (n25/D)	1.4450-1.4550
Flash Point:	31°C Closed Cup
Chemical Structure:	

Applications:

1. Neutral-cure RTV silicone sealants
Used as modifying co-crosslinker in oxime-cure RTV silicone sealants. Verify cure profile, skin-over time, through-cure, modulus, elongation, and storage stability in the target formulation.
2. Low-modulus sealant formulations
Used in sealant systems requiring lower modulus and flexible cured properties. Test movement capability, adhesion, and aging behavior in the final sealant formulation.
3. Soft silicone elastomers
Used in RTV silicone elastomers requiring softer cured properties. Verify hardness, tensile strength, elongation, tear strength, and compression behavior in the target system.
4. Electronic potting and encapsulation
Used in stress-relief silicone potting materials. Verify modulus, adhesion, dielectric properties, thermal cycling behavior, and compatibility with electronic components before use.
5. Customized oxime crosslinker blends

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Blended with trifunctional oxime crosslinkers for formulation adjustment. Verify blend ratio, viscosity, cure profile, by-product profile, and storage stability by formulation testing.

Packing

In 200L drum and 1000L IBC.

Safety and Storage

Store in a cool, dry, well-ventilated environment. Keep containers hermetically sealed under dry nitrogen until ready for use.
Handle in well-ventilated areas or under forced extraction; use appropriate PPE.
Hydrolysis releases MEKO; assess toxicity, VOC, and workplace exposure per local regulations.
Flash point 31°C (closed cup); classified as flammable liquid. Handle per local flammable liquid regulations.

Shelf life: 12 months minimum from manufacture date when stored at ⩽ 25°C in original tightly sealed unopened containers.

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