Technical Data Sheet

www.silfluosilicone.com

Silfluo LS-MMOS

Hybrid Oxime-Alkoxy Silane (Fast-Cure Crosslinker)

Description:

Silfluo LS-MMOS is Methylmethoxybis(methylethylketoximino)silane, a hybrid oxime-alkoxy silane.
The molecule contains one methoxy group, two methylethylketoximino groups, and one methyl group attached to silicon.
Compared with tri-oxime silanes, LS-MMOS provides mixed alkoxy-oxime functionality for adjusting cure behavior in selected neutral-cure RTV silicone formulations.
The methoxy group hydrolyzes under moisture-curing conditions; the oxime groups participate in neutral-cure silicone crosslinking reactions.
Used as crosslinking component or modifying crosslinker in oxime-cure RTV silicone sealants, crosslinker blends, and silicone potting systems.
Skin-over time, through-cure, modulus, elongation, adhesion, MEKO release profile, and storage stability require verification in the target formulation.

Typical Physical Properties

Silfluo Code:	LS-MMOS
Chemical Name:	Methylmethoxybis(methyl ethyl ketoximino)silane
Synonyms	Methylmethoxybis(2-butanoneoximino)silane
CAS No. :	
Molecular Formula:	$C_{10}H_{22}N_2O_3Si$
Molecular Weight:	246.38
Appearance:	Colorless to light yellow transparent liquid
Purity (by GC, %)	95 min
Density (25°C, g/cm³)	0.96
Refractive Index (n25.D)	1.4450-1.4550
Flash Point:	95 °C Closed Cup

Chemical Structure:

Applications:

1. Neutral-cure RTV silicone sealants

Used as crosslinking component or modifying crosslinker in neutral oxime-cure RTV silicone sealants. Verify skin-over time, through-cure, modulus, elongation, adhesion, and storage stability in the target formulation.

2. Oxime crosslinker blends

Blended with MOS, VOS, or other oxime crosslinkers for formulation adjustment. Verify blend ratio, viscosity,

cure profile, by-product profile, and storage stability by formulation testing.

3. Window, door, and facade sealants

Used in construction silicone sealants where cure profile, adhesion, and mechanical properties require adjustment. Test weathering resistance, movement capability, and adhesion per the target application.

4. Silicone potting and encapsulation

Used in silicone potting and encapsulation materials. Verify cure behavior, modulus, dielectric properties, corrosion behavior, and compatibility with electronic components before use.

5. Customized neutral-cure silicone systems

Used as modifying component in neutral-cure silicone formulations. Verify formulation compatibility, catalyst response, shelf-life performance, and final elastomer properties before scale-up.

Packing

In 200L drum and 1000L IBC.

Safety and Storage

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

Handle in well-ventilated areas or under forced extraction; use appropriate PPE.

Hydrolysis releases MEKO and methanol; assess toxicity, VOC, and workplace exposure per local regulations.

Keep containers hermetically sealed under dry nitrogen until ready for use.

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