



Silfluo LS-B6032

Cationic Vinylbenzyl Amino Silane Hydrochloride, 40% in Methanol

Description:

Silfluo LS-B6032 is N-(Vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane hydrochloride, a cationic vinylbenzyl amino functional silane coupling agent supplied as approximately 40% active solution in methanol.

The molecule contains a vinylbenzyl group, a diamino hydrochloride segment, and trimethoxysilyl groups.

The vinylbenzyl group participates in free-radical curing systems.

The trimethoxysilyl groups hydrolyze and react with hydroxylated inorganic surfaces including glass fiber, silica, and silicate minerals.

The diamino hydrochloride structure improves affinity to polar inorganic surfaces and promotes adhesion between inorganic substrates and compatible organic resin systems.

Used for glass fiber treatment, silica filler modification, composite reinforcement, and adhesion promotion in epoxy, vinyl ester, unsaturated polyester, acrylic, and selected thermoset resin systems.

The product may gradually shift color from greenish-yellow to reddish-amber during storage; this is typical for vinylbenzyl amine silane systems. Confirm quality by appearance, active content, viscosity, and application testing.

Benchmark chemistry: Dow Z-6032 . XIAMETER OFS-6032 . Shin-Etsu KBM-575 type chemistry.

Typical Physical Properties

Silfluo Code:	Silfluo LS-B6032
Chemical Name:	N-(Vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane hydrochloride;
Synonyms	Vinylbenzylaminoethylaminopropyltrimethoxysilane hydrochloride; Vinylbenzyl aminoethyl aminopropyl trimethoxysilane hydrochloride; Cationic vinylbenzyl amino silane; Vinylbenzyl diamino silane hydrochloride.
CAS No. :	34937-00-3
EINECS No. :	252-297-3
Alternative/Referenced CAS	171869-89-9, subject to final registration confirmation
Molecular Formula:	C ₁₇ H ₃₁ ClN ₂ O ₃ Si
Molecular Weight:	374.98
Appearance:	Greenish-Yellow changing to Reddish-Amber with time
Active Content:	Approx. 40% in methanol
Density (25°C, g/cm ³):	0.905±0.005
Refractive Index (n _{25.D}):	1.400±0.005
Solvent Boiling Point:	65°C

Nanjing Silfluo New Material Co., Ltd.

Web: www.silfluosilicone.com Email: inquiry@silfluo.com

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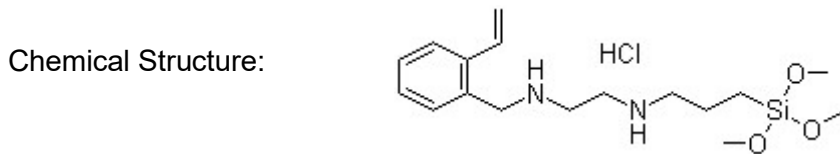
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Technical Data Sheet



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Flash Point: 12.8°C Closed Cup



Solubility: Miscible with alcohols; dispersible or self-emulsifying in water after dilution

Applications:

1. PCB and CCL glass fiber treatment

Used for glass fabric and fiberglass surface treatment in epoxy-based and selected thermoset laminate systems. Verify ionic residue, wet adhesion, and laminate reliability in the target system.

2. Silica and mineral filler modification

Used for silica, silicate, and mineral filler treatment in filled resin systems, adhesives, coatings, and composites. Verify compatibility, dispersion, and mechanical properties in the target compound.

3. Composite reinforcement

Used with unsaturated polyester, vinyl ester, acrylic, and epoxy resin systems to support filler-resin and glass-resin interfacial adhesion. Verify wet mechanical properties and aging behavior in the target composite.

4. Primers and surface modifiers

Used in alcohol-based or water-dilutable primer systems for glass, ceramic, mineral, and selected metal surfaces. Verify adhesion and film properties in the target formulation.

5. Electronic encapsulants and adhesives

Used as adhesion promoter in potting compounds, encapsulants, and structural adhesives. Verify compatibility and ionic impurity levels in the target system before use.

Packing

In 25L pail and 200L drum.

Safety and Storage

Keep in a cool, dark, and dry 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.