Technical Data Sheet

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Silfluo LS-B632

Neutral Low-Chloride Vinylbenzyl Amino Silane, 40% in Methanol

Description:

Silfluo LS-B632 is N-(Vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane, a neutral vinylbenzyl amino functional silane coupling agent supplied as approximately 40% active solution in methanol.
The molecule contains a vinylbenzyl group, a diamino functional segment, and hydrolyzable trimethoxysilyl groups in a non-hydrochloride salt form.
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.
Compared with hydrochloride salt grades, LS-B632 reduces chloride contribution from the silane component.
Used for glass fiber treatment, silica filler modification, and electronic laminate applications where low ionic residue and interface reliability are required.
Related chemistry: Z-6032-type vinylbenzyl amino silane in neutral, non-hydrochloride salt form.

Typical Physical Properties

Silfluo Code:	LS-B632
Chemical Name:	N-(Vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane
Synonyms	Vinylbenzylaminoethylaminopropyltrimethoxysilane; Vinylbenzyl aminoethyl aminopropyl trimethoxysilane; Neutral vinylbenzyl amino silane;
CAS No. :	171869-89-9
EINECS No. :	
Molecular Formula:	$C_{17}H_{30}N_2O_3Si$
Molecular Weight:	338.52
Appearance:	Reddish brown transparent liquid
Active Content (%):	Approx. 40% in methanol
Density (25°C, g/cm³):	0.900-0.910
Viscosity (25°C,mpa.s):	<10
Refractive Index (n25/D):	1.3950-1.4050
Flash Point (25°C):	11°C Closed Cup
Chemical Structure:	

Applications:

1. PCB and CCL glass fiber treatment

Used for glass fabric and fiberglass surface treatment in epoxy-based and selected thermoset laminate systems where chloride input requires control. 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 electronic materials, adhesives, coatings, and composite systems. Verify compatibility, dispersion, and mechanical properties in the target compound.

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3. Composite reinforcement
Used with unsaturated polyester, vinyl ester, acrylic, and epoxy systems to support filler-resin and glass-resin interfacial adhesion. Verify wet mechanical properties and aging behavior in the target composite.
4. Electronic encapsulants and adhesives
Used as adhesion promoter in potting compounds, structural adhesives, and encapsulation systems. Verify compatibility and ionic impurity levels in the target system before use.
5. Low-residue surface treatment
Used where hydrochloride salt silanes are restricted or where lower ionic input is required. Verify ionic residue and surface treatment performance in the target process.

Packing
In 25L pail and 200L drum.

Safety and Storage
The product contains methanol and should be handled with appropriate ventilation, grounding measures and personal protective equipment. Keep away from heat, sparks, open flames, static discharge and moisture.
Keep in a cool, dark, and strictly dry environment. The product is sensitive to ambient moisture and heat. 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. Storage beyond the shelf life does not necessarily mean the product is unusable; however, the properties required for the intended use must be thoroughly checked for quality assurance reasons prior to formulation.

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