



## Silfluo LS-B6224

Low-Chloride Partially Hydrolyzed Vinylbenzyl Amino Silane

### Description:

Silfluo LS-B6224 is a low-chloride, partially hydrolyzed vinylbenzyl amino functional silane supplied as an active solution in methanol.

The molecule is based on a vinylbenzyl diamino silane structure and contains vinylbenzyl functionality, diamino groups, and partially hydrolyzed silanol groups.

The vinylbenzyl group participates in free-radical curing systems.

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

Partial hydrolysis is performed during manufacturing, reducing the need for in-house hydrolysis before use in aqueous sizing or finishing baths.

Used in glass fiber treatment, fiberglass fabric finishing, and electronic laminate applications where chloride control and interface reliability are required.

Benchmark chemistry: Dow Z-6224 . XIAMETER OFS-6224 type low-chloride, partially hydrolyzed vinylbenzyl amino silane.

### Typical Physical Properties

Silfluo Code:	LS-B6224
Chemical Name:	Partially hydrolyzed N-(vinylbenzyl)-2-aminoethyl-3-aminopropyltrimethoxysilane; Partially hydrolyzed vinylbenzylaminoethylaminopropyltrimethoxysilane;
Synonyms	Pre-hydrolyzed vinylbenzyl amino silane; Low-chloride partially hydrolyzed vinylbenzyl amino silane; Vinylbenzyl amino silane hydrolysate; Pre-hydrolyzed styrenic diamino silane.
Appearance:	Brownish-red transparent liquid
Active content (%):	40.0 - 45.0% (in Methanol)
Density (25°C, g/cm <sup>3</sup> )	0.890-0.915
Ionic Chloride:	3.1-3.8 ppm
Flash Point (Closed Cup):	13°C
Solubility:	Miscible or dispersible in water and aqueous sizing baths

### Applications:

1. PCB and CCL glass fabric treatment

Used as coupling agent for woven glass fabrics in epoxy-based printed circuit board and copper clad

# Technical Data Sheet



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laminates systems. Verify ionic residue, wet adhesion, and laminate reliability in the target system.

## 2. Fiberglass sizing and finishing

Used in aqueous sizing baths, glass fiber finishing, and pretreatment of glass rovings, mats, and fabrics. Verify bath stability, pickup level, and fiber compatibility before scale-up.

## 3. Composite reinforcement

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

## 4. Electronic laminate materials

Used in electronic laminate systems requiring low ionic residue, wet adhesion, and laminate reliability. Verify dielectric properties and thermal aging performance in the target laminate.

## 5. Mineral surface treatment

Used for silica, silicate, and mineral filler treatment in compatible systems. Verify compatibility and treatment performance before use.

### **Packing**

In 170kg drum.

### **Safety and Storage**

Keep in a cool, dark, and strictly dry environment. Ensure containers remain tightly sealed to prevent solvent evaporation or further unwanted condensation of the silanols. 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.