Technical Data Sheet

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Silfluo LS-ND22

Alpha-Amino Functional Silane

Description

Silfluo LS-ND22 is (N,N-Diethylaminomethyl)triethoxysilane, an alpha-amino functional organosilane.

The molecule contains a tertiary diethylamino group connected to silicon through a methylene bridge, and a triethoxysilyl group.

The alpha-silane structure gives different hydrolysis and condensation behavior compared with conventional gamma-functional silanes.

The tertiary amine group provides catalytic support in moisture-curing systems.

The triethoxysilyl group hydrolyzes and forms siloxane linkages or bonds to hydroxylated inorganic surfaces under suitable conditions.

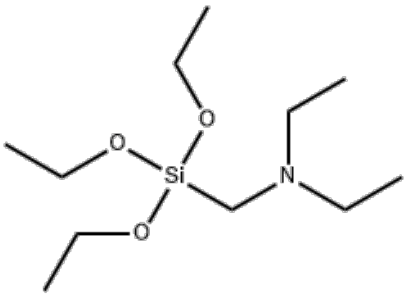
Used as crosslinking additive, adhesion promoter, or reactive silane component in RTV silicone systems, silane-modified polymers, SPUR systems, epoxy composites, FRP systems, and textile finishing intermediates.

Cure behavior, adhesion, flexibility, moisture resistance, and storage stability require verification in the target formulation.

Typical Physical Properties

Silfluo Code:	LS-ND22
Chemical Name:	Diethyl amino methyl triethoxy silane;
Synonyms	(Triethoxysilylmethyl)diethylamine;
CAS No. :	15180-47-9
EINECS No. :	696-292-8
Molecular Formula:	$C_{11}H_{27}NO_3Si$
Molecular Weight:	249.42
Appearance:	Colorless transparent to pale yellow liquid
Density (ρ20°C, g/cm³)	0.916~0.933
Refractive Index (n25/D)	1.4000~1.4300
Purity:	95% min
Boiling Point (5mmHg):	110~130°C
Flash Point:	>110°C

Chemical Structure:



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Applications

1. RTV silicone systems

Used as crosslinking additive or adhesion promoter in room-temperature-vulcanizing silicone systems. Verify cure behavior, deep-section cure, storage stability, and adhesion by formulation testing.

2. SMP, MS polymer, and SPUR systems

Used as a reactive silane component in silane-modified polymer and silyl-terminated polyurethane systems. Test cure profile, modulus, elongation, adhesion, and storage stability in the final formulation.

3. Epoxy and FRP composites

Used as a coupling additive in fiberglass-reinforced plastics and epoxy composite systems. Verify interfacial adhesion, mechanical properties, and moisture resistance by application testing.

4. Primers and surface treatment

Used in primer and surface treatment formulations for glass, mineral fillers, metal oxide surfaces, and other hydroxylated inorganic substrates. Conduct substrate-specific adhesion testing before use.

5. Textile finishing intermediates

Used as a reactive silane intermediate in textile finishing systems. Verify handle, wash durability, and fiber compatibility in the target process.

Packaging

In 20kg pail,190kg drum and 950kg IBC

Safety and Storage

Keep away from heat and open flame. When stored at or below 25°C in the original unopened containers, this product has a usable life of 24 months from the date of production (200L drum).

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