



Silfluo LS-A112T

Technical-Grade Diamino-Functional Silane (85%)

Description

Silfluo LS-A112T is a technical-grade diamino-functional silane primarily based on N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane, with a minimum diaminosilane active content of 85%. The product contains the main diamino silane component together with a controlled level of higher-boiling silane species and oligomeric components from the manufacturing process. The primary and secondary amine groups interact with compatible resin systems including epoxy, phenolic, polyurethane, and other reactive polymers. The trimethoxysilyl group hydrolyzes and reacts with hydroxylated inorganic surfaces including glass, silica, mineral fillers, foundry sand, and metal oxide surfaces. Used as adhesion promoter, coupling agent, or surface treatment additive in foundry binders, industrial coatings, glass fiber treatment, mineral-filled composites, sealants, and adhesives. Performance equivalent to Evonik Dynasylan DAMO-T and Momentive Silquest A-1120 (Technical Grade).

Typical Physical Properties

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| Silfluo Code: | LS-A112T |
| Chemical Name: | (2-Aminoethyl)-3-aminopropyltrimethoxysilane (Technical Grade) N-beta-(Aminoethyl)-gamma-aminopropyltrimethoxysilane mixture |
| CAS No.: | 1760-24-3 (Main Component) |
| Appearance | Colorless to Light Yellow Transparent Liquid |
| Active Content (Diaminosilane): | 85% min. |
| Ash content (SiO ₂) | 27-29% |
| Amine value(mmol.g): | 13-15 |
| Density (25°C, g.cm ³): | Approx. 1.030 |
| Refractive Index(n _{25.D}) | 1.4300-1.4800 |

Applications

1. Foundry resins

Used as adhesion promoter or coupling additive in phenolic, furan, and polyurethane foundry binder systems. Verify sand strength, humidity resistance, gas evolution, and casting surface quality under customer process conditions.

2. Industrial coatings

Used as additive or primer component in epoxy, polyurethane, and other industrial coating systems. Verify adhesion, corrosion resistance, salt spray performance, and coating compatibility by formulation testing.

3. Glass fiber and mineral-filled composites

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Technical Data Sheet



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Used as coupling agent for glass fibers, glass fabrics, mineral wool, and selected mineral reinforcements. Verify filler-resin interaction, wet mechanical properties, and composite performance in the target resin system.

4. Sealants and adhesives

Used as internal adhesion promoter in polyurethane, epoxy, silicone, and hybrid sealant systems. Verify adhesion to metals, glass, mineral surfaces, and plastics by substrate-specific testing.

5. Mineral filler pretreatment

Used for treating silica, wollastonite, mica, talc, and other inorganic fillers. Verify dispersion, viscosity, mechanical properties, and processing behavior in the target compound.

6. Resin modification and primers

Used in primer, binder, and resin modification systems requiring diamino functionality and alkoxy silane reactivity. Verify compatibility and performance in the target system.

Packaging

In 25kg pail, 200kg drum and 1000kg IBC

Safety and Storage

Keep away from heat and open flames.

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

Shelf life: 12 months from production date when stored at $\leq 25^{\circ}\text{C}$ in original unopened containers.