

Silane USi-1302

Amino functional alkoxy silane

Product Description

Chemical Name:

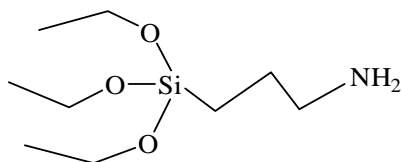
γ -aminopropyltriethoxysilane

Synonym: 3-Triethoxysilylpropylamine

CAS NO.: 919-30-2

EINECS NO.: 213-048-4

Chemical structure:



Properties

In addition to its application as an adhesion promoter in formulations and primers, silane USi-1302 functions as a surface modifier in fillers and pigments, where it improves the dispersibility of the filler and the mechanical properties – such as flexural strength, tensile strength and modulus - of the composites. The silane also reduces the filler's sedimentation tendency in the uncured polymer.

Silane USi-1302 also greatly increases water (vapor) and corrosion resistance.

Typical Technical Data

The below values are not intended for use in preparing specifications. Please confirm with us prior to writing specifications on this product.

Appearance: Colorless transparent liquid

Colour (Pt-Co): 25 max

Specific Gravity ($\rho_{20^\circ\text{C}}$, g/cm³): 0.940~0.950

Refractive Index ($n_D^{25^\circ\text{C}}$): 1.4180~1.4220

Purity (by GC, %): 98.0 min

Applications

Silane USi-1302 is an vital additive for many applications, such as follows:

- Glass fiber or glass fabric composites:
As a finish or size constituent
- Mineral fiber insulating materials and abrasives:
As an additive to phenolic resin binders
- Foundry resins: As an additive to phenolic, furan and melamine resins
- Sealants and adhesives: As a primer or additive and for chemical modification
- Mineral-filled polymers or HFFR cables:
For pretreatment of fillers and pigments
- Paints and coatings: As an additive and primer for improving adhesion to the substrate
- As a primer for glass and metal

Safety & Storage

Customers should review the latest MSDS and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS is available at www.usi-chemical.com or upon request.

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 12 months from the date of production.

Packaging

In 20kg, 190kg or 200kg drum and 950kg IBC

Contact Information

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