

Silane USi-D1301

Diamino functional silane

Product Description

Chemical Name:

N-β-(aminoethyl)-γ-Aminopropyl

trimethoxy silane

Synonym: [3-(2-Aminoethyl) aminopropyl]trimethoxysilane

CAS NO.: 1760-24-3 EINECS NO.: 217-164-6

Chemical structure:

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 (ρ 20°C,g/cm³): 1.010~1.030

Refractive Index (n_D^{25} °C): 1.4425~1.4460

Purity (by GC, %): 97.0 min

Properties

Thanks to the specific reactivity of the 2-aminoethylaminopropyl structure, using USi-D1301 as an adhesion promoter in Glass - fiber reinforced or filler-modified plastics reduces the filler's sedimentation tendency and improves dispersibility and numerous mechanical properties (e.g. flexural strength, tensile strength, modulus of elasticity) of the composites.

The use of USi-D1301 in these materials also results in a markedly improved resistance to water (vapor) and corrosion. Electrical properties, such as volume resistivity and the dielectric constant, are also positively influenced.

Applications

Silane USi-D1301 is an important additive in applications such as:

- Glass fiber or glass fabric composites:
 As a finish or size constituent
- Glass and metal primers
- Foundry resins: As an additive to various types of foundry resins
- Sealants and adhesives:As a primer or additive
- Mineral-filled polymers (composites):
 For pretreatment of fillers and pigments or as an additive
- Paints and coatings: As an additive and primer for improving adhesion to the substrate



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 $^{\circ}$ C in the original unopened containers, this product has a usable life of 12 months from the date of production.

Packaging

In 25kg, 200kg drum and 1000kg (Net weight 950kg) IBC

Contact Information

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