

# Silane USi-SL25

Isocyanate functional alkoxy silane

## Product Description

Chemical Name:

$\gamma$ -Isocyanatopropyltriethoxysilane

Synonyms:

3-(Triethoxysilyl)propyl isocyanate;

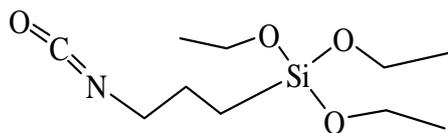
Triethoxy(3-isocyanatopropyl)silane

CAS NO.: 24801-88-5

Molecular Formula: C<sub>10</sub>H<sub>21</sub>NO<sub>4</sub>Si

Molecular Weight: 247

Chemical structure:



## Properties

Silane USi-SL25 is a new type of bifunctional agent with isocyanato group and triethoxysilyl group, can be easily hydrolyzed and crosslinked. The dual nature allows it to bind chemically both inorganic materials (glass, sand and fillers) and organic polymers (thermo-sets, thermo-plastics).

By adding Silane USi-SL25 into rubber, the mechanical properties of the vulcanized, in particular the elongation properties and the abrasion resistance are improved without the difference in rebound resilience. Also can be used in adhesives and polyurethane sealant and coating application in order to improve self cross-linking, moisture curable and excellent adhesion to inorganic materials.

## 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 or light yellow clear liquid

Colour (Pt-Co): 30 max

Specific Gravity ( $\rho_{20^{\circ}\text{C}}$ , g/cm<sup>3</sup>): 0.950~1.050

Refractive Index ( $n_D^{25^{\circ}\text{C}}$ ): 1.4140~1.4240

Purity (by GC, %): 96.0 min

## Applications

Silane USi-SL25 is used as additive in applications as follow:

- As a modifier:  
to alkoxy-silyl crosslinked fluoro-resin fluid
- To promote adhesion to silicone rubber.
- As an additive:  
to Urethane Paints, adhesives, sealing materials
- As a modifier to hydroxyl resins:  
acrylic resin, PVA

## **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](http://www.usi-chemical.com) or upon request.

Keep away from heat and open flame. When stored at normal temperature in the original unopened containers, this product has a usable life of 9 months from the date of production.

## **Packaging**

In 30kg, 200kg drum

## **Contact Information**

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