

Manta S310

Isocyanate functional alkoxy silane

Description

Manta S310 is a unique isocyanate functional silane. The isocyanate functionality exhibits the typical reactivity of an alkyl isocyanate and will react with most reactive hydrogen containing compounds. The silane portion of these products can then crosslink with each other or be used to adhere to a variety of substrates.

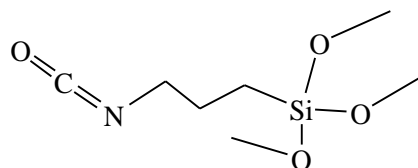
The Equivalent List

Manta	Momentive	Dow	Evonik	Wacker	Shin-Etsu
S310	A-Link35/Y5187			GF 40	KBM-9007

Typical Physical Properties

Manta code:	S310
Chemical Name:	γ -Isocyanatopropyltrimethoxysilane
Synonyms	Trimethoxy(3-isocyanatopropyl)silane; 3-(Trimethoxysilyl)propyl isocyanate;
CAS No. :	15396-00-6
EINECS No. :	239-415-9
Molecular weight:	205.28
Appearance:	Colorless transparent liquid
Purity (by GC, %)	96.0 min
Specific Gravity ($\rho_{20^{\circ}\text{C}}$, g/cm ³)	1.020~1.080
Refractive Index ($n_D^{25^{\circ}\text{C}}$):	1.4190~1.4220
Boiling Point:	
Flash point:	99 °C closed cup

Chemical Structure:



Properties

- Reactive with -OH, -NH₂, and -SH functional polyols and polymers, providing a moisture-cure silane crosslink mechanism
- Provides good adhesion to difficult substrates as an adhesion promoter
- Offers fast hydrolysis in the presence of atmospheric moisture
- Provides superior wet adhesion to glass, metal and other inorganic substrates
- Resulting bond offers excellent thermal, chemical and UV stability

Applications

Silane Manta S310:

- 1) As a modifier to alkoxy silyl crosslinked fluororesin fluid.
- 2) To promote adhesion to silicone rubber and for one-part moisture curable and two-part reactive urethane systems.
- 3) As an additive to Urethane Paints, adhesives, sealing materials, and a modifier to hydroxyl resins (Acrylic resin, PVA). etc.
- 4) Crosslinking for one-part moisture curable urethane adhesives, sealants and coatings when used to endcap diol of polyol polymers
- 5) Adhesive promoters for silicon sealants or coating seeking enhanced adhesion to organic substrates on which active hydrogen species are present, such as nylon or other plastics.

Packaging

In 20KG, 25kg iron pail, 200KG drum

Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is min. 12 months. It is shipped as hazardous substance.

Contact Information

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