MANTA

Technical Data Sheet

Version: 1.0

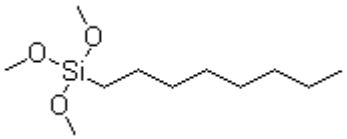
Manta L310

Alkyl Functional Silane

Description

Manta L310 is N-octyltrimethoxysilane. Due to its methoxy functionality, it hydrolyzes significantly faster than its ethoxy counterparts, making it highly effective for rapid curing applications. Upon reacting with atmospheric or substrate moisture, it deeply penetrates mineral matrices and forms a durable, breathable, water-repellent siloxane network. It imparts uniform surface hydrophobicity with a dry, non-tacky feel, preserving the substrate's original appearance.
Equivalent to Dow XIAMETER™ OFS-6665, Evonik Dynasylan® OCTMO and Shin-Etsu KBM-3083.

Typical Physical Properties

Manta Code:	L310
Chemical Name:	N-Octyltrimethoxysilane
Synonyms:	Trimethoxyoctylsilane
CAS No. :	3069-40-7
EINECS No. :	221-338-7
Appearance:	Colorless transparent liquid
Purity (by GC, %):	98.0 min
Specific Gravity (ρ20°C, g/cm^3):	0.902~0.912
Refractive Index (nD 25°C):	1.4120–1.4220
Chemical Structure:	

Application

1) Stone Protection (Primary): Deeply penetrates marble, granite, and sandstone. Provides breathable waterproofing and anti-efflorescence with a dry, non-tacky finish, preserving the natural appearance.
2) Concrete & Masonry Waterproofing: Used as a highly effective penetrating sealer or integral admixture. Protects against water absorption, freeze-thaw damage, and chloride ingress without blocking pores.
3) Mineral Filler Modification: Enhances the hydrophobicity and dispersibility of fillers (e.g., silica, talc, glass fibers) in plastics, rubber, and coatings, while improving electrical insulation.
4) Glass & Ceramic Coatings: Creates an ultra-thin, durable hydrophobic layer, offering excellent anti-fouling and easy-to-clean properties for architectural and photovoltaic glass.

Packaging

In 20kg pail, 180kg drum and 900kg IBC

Safety and Storage

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

Contact Information

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