Technical Data Sheet

ChangFu® NCO32
3-Isocyanatopropyltrimethoxysilane

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Description

ChangFu® NCO32 is a trialkoxy silane with isocyanate functionality. It owns the bifunctionality of a reactive isocyanate group and a hydrolysable alkoxy group. The isocyanate functional group is unsaturated and readily reacts with compounds containing active hydrogen atoms. The alkoxy group can hydrolyze to form a silanol group and offer superior adhesion to a wide range of inorganic substrates.

Features & Benefits

Containing both an isocyanate functional group and a trialkoxy group.
Highly reactive. Especially suitable for moisture curing system.
Coatings with improved anti-corrosion properties can be obtained.
Significantly enhance the thermal stability for polyurethanes, amines, and epoxy.

Applications

Used as a resin terminator and polymer modifier in the preparation of silane-terminated polymers (MS polymers) and silyl-modified polyurethane polymers (SPUR polymers).
Used as a coupling agent to promote adhesion and a surface modifier to enhance fillers dispersion in coating and sealants.
Used as a crosslinker of RTV and improve the bonding between rubber and substrates.
Used in the synthesis of urea functional silanes and azide functional silanes.

Typical Properties

Description	3-Isocyanatopropyltrimethoxysilane
Product No.	ChangFu® NCO32
CAS No.	15396-00-6
Formula	C7H15NO4Si
Purity	min 98%
Color	Colorless or light yellow
Appearance	Clear liquid

Package

Offered in 25L pails and 200L drums.
Custom packaging is available.

Storage

Stored in a cool, well-ventilated place.
Keep container tightly closed.

Transportation

See the corresponding Safety Data Sheet.