



## Silfluo LS-AM121

Alpha-Functional Carbamate Silane (Scavenger & Chain Extender)

### Description

Silfluo LS-AM121 is Methyl N-[(dimethoxymethylsilyl)methyl]carbamate, an alpha-functional carbamate silane.

The molecule contains a carbamate group and a methyldimethoxysilyl group connected through a methylene bridge.

The alpha-silane structure gives different hydrolysis and moisture-scavenging behavior compared with conventional gamma-functional silanes.

Unlike trialkoxysilanes, LS-AM121 carries a dialkoxysilane structure, giving controlled crosslink density in moisture-curing systems.

Used as moisture-scavenging additive, reactive silane component, or chain-extending silane in silane-terminated polymer, SMP, SPUR, polyurethane, and hybrid adhesive or sealant systems.

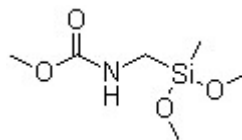
Moisture-scavenging performance, viscosity stability, cure behavior, modulus, elongation, and storage stability require verification in the target formulation.

Performance equivalent to Wacker GENIOSIL XL 65.

### Typical Physical Properties

Silfluo Code:	LS-AM121
Chemical Name:	[(Methylcarbamato)methyl]dimethoxymethylsilane
Synonyms:	[Dimethoxymethylsilyl)methyl]-O-methylcarbamate; Methyl N-[[dimethoxy(methyl)silyl]methyl]carbamate;
CAS NO.	23432-65-7
Molecular Formula:	C <sub>6</sub> H <sub>15</sub> NO <sub>4</sub> Si
Molecular Weight:	193.27
Appearance:	Colorless Transparent Liquid
Density (ρ <sub>20</sub> °C, g/cm <sup>3</sup> )	1.05-1.15
Refractive Index (n <sub>25</sub> .D)	1.4300-1.4400
Purity:	≥97%

Chemical Structure:



### Applications

#### 1. SMP, SPUR, and silane-terminated polymer systems

Used as reactive silane component, moisture-scavenging additive, or chain-extending silane in silane-modified polymer and silyl-terminated polyurethane systems. Verify moisture content, viscosity, cure

# Technical Data Sheet



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profile, modulus, elongation, and storage stability in the target formulation.

## 2. Low-modulus sealant formulations

Used in sealant systems requiring controlled crosslinking and flexible cured properties. Test modulus, movement capability, adhesion, and aging behavior in the final sealant formulation.

## 3. Moisture-curing polyurethane and hybrid adhesives

Used in 1K polyurethane and hybrid adhesive systems requiring moisture control and alkoxy silane functionality. Verify CO<sub>2</sub> formation, foaming tendency, cure behavior, and pot life by formulation testing.

## 4. Construction and industrial sealants

Used in construction and industrial sealant formulations. Test adhesion, weathering resistance, movement capability, and mechanical properties per the target application.

## 5. Moisture-sensitive formulations

Used as moisture-control additive in moisture-sensitive systems. Confirm compatibility, dosage, storage stability, and final cure behavior before scale-up.

## Packaging

In 500g, 1000g, 25kg pail, 200kg drum.

## Safety and Storage

**Storage Conditions:** Keep tightly closed in a cool, strictly dry, and well-ventilated area. Protect from direct sunlight and ambient moisture. Premature exposure to humidity will trigger rapid hydrolysis.

**Shelf Life:** Minimum 9 months when stored in the original, unopened containers under proper conditions.

**Transportation:** Shipped as a non-hazardous substance according to transport regulations.