



Alpha Silane LS-AM121

Description:

Chemical Name: [(Methylcarbamato)methyl]dimethoxymethylsilane

Synonyms: Methyl N-[[[(dimethoxy)(methyl)silyl]methyl]carbamate;

N-[Dimethoxymethylsilyl]methyl]-O-methyl carbamate;

Equivalents: Geniosil XL 65

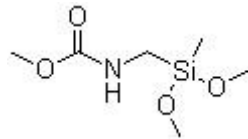
Molecular Formula: C₆H₁₅NO₄Si

CAS NO.: 23432-65-7

Molecular Weight: 193.27

EINECS NO.: 457-690-5

Chemical Structure:



LS-AM121 exhibits high reactivity toward moisture due to the close structural proximity of the nitrogen and silicon atoms (alpha-effect). AM121 plays a crucial role in formulations that cure extremely fast at ambient temperature when exposed to atmospheric moisture. This is particularly relevant for systems where alpha-organofunctional terminal groups act as crosslinkers. Incorporating AM121 significantly enhances storage stability. It is particularly well-suited for manufacturing highly flexible materials with a low elastic modulus. This is because the dialkoxysilyl group serves as a chain extender during the prepolymer curing process, leading to a lower level of crosslinking.

Typical Technical Properties:

Appearance: Colorless transparent liquid

Flash Point: 82°C

Purity(%): ≥97

Boiling Point: 213°C

Refractive Index (25°C): 1.4300-1.4400

Density(25°C, g/cm³): 1.05-1.15

Applications:

LS-AM121 is used as a water scavenger in the production of moisture-curing adhesive and sealant formulations. It is important particularly in systems using highly reactive silane-modified polymers based on alpha-organofunctional silanes(eg STP M310). As a bifunctional silane, AM121 functions additionally as a chain extender and is thus ideally suited for highly flexible products.

Package &Storage:

In 25kg pail, 200kg drum, 1000kg IBC.

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources. Keep away from acid and

Technical Data Sheet



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alkali. Keep in unopened containers.

Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.