

e-free™ 1100

Silane Water-Based Amino Silane Solution

Description

The e-free 1100 silane is a high purity, aminoalkyl-silane solution in water that can deliver the performance of an aminoalkylsilane ester, such as Silquest A-1100* silane, in a convenient pre-hydrolyzed form.

Easily diluted with water, this one-to-one active content replacement for Silquest A-1100 silane contributes virtually(1) no ethanol to processing, offering an essentially VOC-free version of Silquest A-1100 silane.

(1) e-free 1100 silane contains less than 2 percent by weight releasable ethanol.

Key Features and Typical Benefits

- Minimal alcohol generation when added to aqueous solutions
- Easy handling, ready to use
- Elimination of pre-hydrolyzing
- Shelf-stability even in presence of atmospheric moisture

Typical Physical Properties

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|--------------------------|--------------------|
| Appearance | Water-clear liquid |
| Color | < 100 Pt-Co |
| Viscosity, 25 °C | 200-300 cStk |
| Amine (NH ₂) | 7.0 to 7.4% |
| Specific Gravity | 1.160 g/ml |
| Alcohol Content | < 2% |

Typical properties are average data and are not to be used as or to develop specifications.

Potential Applications

- Coupling agent for insulation wool binders
- Finish for woven fiberglass
- Coupling agent for glass fiber sizes
- Filler treatment
- Additive to water soluble or dispersible resins
- Adhesion promoter in acrylic emulsion based sealants and caulks

General Considerations for Use

When compared to gamma-aminopropyltriethoxysilane, Silquest A-1100 silane, equivalent performance can typically be obtained when one part of Silquest A-1100 silane is replaced with one part of e-free 1100 silane.

The e-free 1100 silane solution should be protected from low temperatures as it freezes at approximately 0 °C. Freezing does not harm e-free 1100 silane, but if frozen, the material should be well stirred after thawing to ensure uniform concentration.

Availability

The e-free 1100 silane is currently available in drum quantities.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers)

may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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