

Silquest™ TEOS Pure

Silquest* TEOS Pure

Description

Momentive Performance Materials Silquest TEOS Pure silane may be an excellent candidate for use in a variety of applications. Silquest TEOS Pure silane (tetraethyl orthosilicate, or ethyl silicate) is, at minimum, 99% free of impurities and may be used as an efficient crosslinking agent, binder and catalyst.

Key Features and Benefits

The chemical structure of Silquest TEOS Pure silane affords the following benefits:

- Compatibility with a wide range of solvents
- A liquid source of silica equivalent

Typical Physical Properties

Physical Form	Liquid
Purity, %	>99
Molecular Weight, g/mole	208.1
Color (Pt/Co)	50 max.
Specific Gravity, 23°C	0.93
Acidity (as pH)	6-8
Chloride (ionic), ppm	50 max.
Flash Point, Closed Cup, °C (°F)	54 (130)
Viscosity, cPs	5

Chemical Structure



Potential Applications

Silquest TEOS pure silane may be an excellent candidate for use as a binder in precision investment castings. It also may be used as a second backup casting coating. It cures faster than colloidal silica systems.

In the manufacture of electronics and computer components, Silquest TEOS pure silane can be used as a source of silicon dioxide in films deposited on silicon substrates.

In corrosion-resistant paints, it can be used as a component in zinc-based primer coatings.

For the manufacture of sealant materials, Silquest TEOS pure silane can be used as a cross-linking agent.

Silquest TEOS pure silane is useful as a raw material in sol-gel systems.

On glass and plastic lens materials, Silquest TEOS pure silane provides a scratch-resistant, hard-coat to the finish.

Patent Status

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

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