

## 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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