

## Silquest™ G-170

### Description

Silquest G-170 silane is a proprietary vinyl-functional silane coupling agent which can substantially reduce the volatile alcohol byproducts during the manufacture of wire and cable (W&C) jacketing.

Silquest G-170 silane has been shown to promote adhesion between unsaturated resins, polyolefins or rubbers and inorganic substrates including fiberglass, silica, siliceous fillers, pigments and many metal oxides.

This vinyl silane is an excellent candidate to consider for the manufacture of EPDM cross-linked low and medium voltage W&C jacketing, for lessening the environmental impact of methyl cellosolve emissions that are by-products of alternative products.

### Key Features and Benefits

- Adhesion of organic polymers to inorganic fillers, halogen-free flame retardants, pigments or metal surfaces.
- Improves the electrical and tensile strength properties of ethylene/propylene/diene rubber and polyethylene resins after wet-conditioning, especially important for wire and cable applications.
- Enhances the strength of cured, glass fiber or filled reinforced polyester resin composites, especially after wet-conditioning.
- Lowers volatile organic content (VOC's) during use.

### Typical Physical Properties

Appearance	Clear Liquid
Color	Light Straw
Acidity as Chloride, ppm	1
Solubility Hatch Number, NTU	6.0
Flash Point, °C (°F)	120 (248)

## Applications

Silquest G-170 silane is a coupling agent useful in glass- fiber reinforced polyester resin.

As a coupling agent, Silquest G-170 silane is suited for direct addition to kaolin-filled EPDM rubbers used in wire and cable jacketing.

As a pretreatment for particulate HFFR fillers, such as magnesium dihydroxide or aluminum trihydrate, Silquest G-170 silane is used in HFFR compounds based upon polyolefins, EPDM rubber or other resins.

Soluble in toluene, xylene, acetone and many alcohols. Reacts with water especially if the pH of the water is adjusted to 3-4.

## Patent Status

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### 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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