

## Silane A-1100 (KH-550)

### Product Description

Chemical Name: gamma-aminopropyltriethoxysilane

CAS NO.: 919-30-2

### Specifications

Appearance	Colorless transparent liquid
Colour(Pt-Co)	≤ 25
Specific Gravity ( ρ 20°C, g/cm <sup>3</sup> )	0.944 – 0.950
Refractive Index ( $n_D^{25°C}$ )	1.4180 –1.4210
Purity ( % )	≥ 97.0

### Applications

#### Coatings, Adhesives and Sealants

The aminosilane is an excellent adhesion promoter in acrylic coatings, adhesives and sealants. With polysulfide, urethane, RTV silicones, epoxy, nitrile, phenol formaldehyde resin, adhesives and sealants, the product improves pigment dispersion and maximizes adhesion to glass, aluminum and steel.

#### Fiber glass Reinforcement

In fiberglass reinforced thermosetting plastics and thermoplastics, the aminosilane enhances the flexural, tensile and interlaminar shearing strengths before and after exposure to humidity. This product greatly improves wet electrical properties. Fiberglass reinforced thermoplastics, polyamides, polyesters and polycarbonates exhibit increased flexural and tensile strengths before and after wet exposure when this silane is used.

#### Glass Fiber and Mineral Wool Insulation

As a phenolic resin binder additive, the aminosilane imparts moisture resistance and allows recovery after compression

#### Mineral Filler and Resin Systems

## OSi Crompton - NCS

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The aminosilane maximizes the physical and electrical properties of mineral-filled phenolics, polyester resin, epoxies, polyamides, polycarbonate and a host of other thermoset and thermoplastic composites. Wettability and dispersibility of filler in the polymer matrix are also improved.

### **Foundry Application**

In shell molding, the aminosilane strengthens the bond between the phenolic binder and foundry sand.

### **Grinding Wheel Manufacture**

The aminosilane promotes an improved, water resistant bond between the abrasive grit and phenolic resin binder.

### **Wood plastic composite production**

The mechanical properties of composites made of wood meal, such as impact strength, bending strength and bending modulus, will be improved after these composites are processed with this product.

### **Packing**

25 kg, 200kg plastic or iron drum