SILQUEST® Silanes and Typical Uses

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OSi Specialties

Silane-Esters	Organic and Silane Functionalities		Typical Use
A-137 Octyltriethoxysilane	Alkyl	Tri ethoxy	Alkali resistant hydro-phobic surface treatments for masonry and wood
A-162 Methyltriethoxysilane	Methyl	Tri ethoxy	Water repellent surface treatments
A-1230 Proprietary non-ionic silane dispersing agent	Alkyleneoxide	Tri methoxy	Reactive wetting and dispersing agent; used in SMC
A-1630 Methyltrimethoxysilane	Methyl	Tri methoxy	Dessicant, mineral surface treatment and dispersion agent for mineral fillers
Y-11597 tris-(3-Trimethoxysilylpropyl) isocyanurate	Isocyanurate	Tris-(tri methoxy)	Adhesion promoter for difficult substrates, such as plastics or wood; and crosslinking agent for silylated resins

General use: mineral surface and filler treatment for coupling and dispersion.

Sulfur-Silanes	Organic and Silane Functionalities		Typical Use
A-189 gamma-Mercaptopropyl-trimethoxysilane	Mercapto	Tri methoxy	Coupling agent for sulfur, cured rubber and polyurethanes.
A-1289 bis-(3-Triethoxysilylpropyl) polysulfide	Polysulfide	Tri ethoxy	Coupling agents for rubber belts, hoses, shoe soles and silica filled tires
A-1589 bis-(3-Triethoxysilylpropyl) disulfide	Disulfide	Tri ethoxy	Coupling agents for rubber belts, hoses, shoe soles and silica filled tires

General use: bonding additives, crosslinking agents and coupling agents for mineral filled rubber compounds, such as polysulfide, nitrile, neoprene, polyurethane, epoxy and urea-formaldehyde resins.

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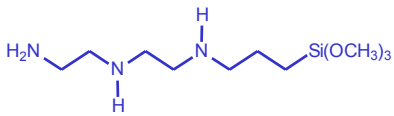
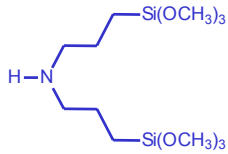
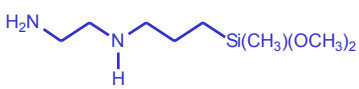
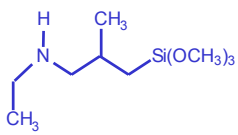
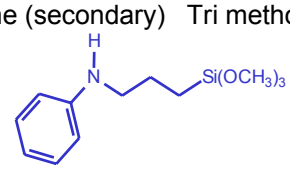
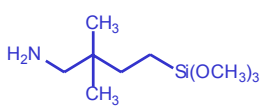
Amino-Silanes	Organic and Silane Functionalities	Typical Use
A-1100 / A-1102 (tech. grade) gamma-Aminopropyl triethoxysilane	Amine (primary) Tri ethoxy 	Versatile bonding additive and coupling agent for amino reactive resins
A-1106 / VS-142 Aqueous aminoalkyl silicone solutions	Amine (primary) Silanol 	Waterborne coatings, adhesives, sealants and primers
A-1110 gamma-Aminopropyl trimethoxysilane	Amine (primary) Tri methoxy 	Versatile bonding additive and coupling agent for amino reactive resins
A-1120 N-(beta-Aminoethyl)-gamma-aminopropyl trimethoxysilane	Amine (prim./sec.) Tri methoxy 	General purpose bonding and adhesion promoter. Coupling agent in phenolic and epoxy compounds
A-1130 Triamino-functional trimethoxysilane	Amine (prim./sec.) Tri methoxy 	General purpose bonding additive; especially suited for PVC plastisols
A-1170 bis-(gamma-Trimethoxysilyl propyl) amine	Amine (secondary) Di-(tri methoxy) 	Good adhesion to difficult substrates; efficient cross-linking agent used for polyurethane prepolymer endcapping
A-2120 N-(beta-Aminoethyl)-gamma-aminopropyl methyldimethoxysilane	Amine (prim./sec.) Di methoxy 	Coupling for fiber glass. Suited for waterborne systems; induces a limited crosslink density
A-Link 15 N-ethyl-gamma-aminoisobutyl trimethoxysilane	Amine (secondary) Tri methoxy 	Adhesion promoter and cross-linking agent for adhesives and sealants, non-yellowing properties
Y-9669 N-Phenyl-gamma-aminopropyl trimethoxysilane	Amine (secondary) Tri methoxy 	Coupling agent with high thermal resistance and good wet-out properties; polyurethane prepolymer endcapping
A-1637 (Y-11637) 4-amino-3,3-dimethylbutyl trimethoxysilane	Amine (primary) Tri methoxy 	Adhesion promoter Non-yellowing bonding additive and coupling agent for amino-reactive resins

General use: general purpose bonding additives, crosslinking agents and coupling agent, suited for a wide variety of resins.

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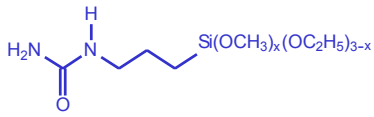
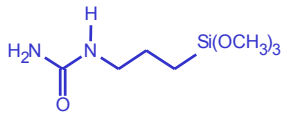
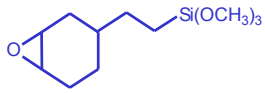
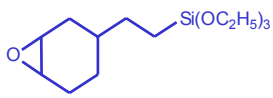
Ureido-Silanes

	Organic and Silane Functionalities		Typical Use
A-1160 gamma-Ureidopropyl trialkoxysilane (50% in methanol)	Ureido	Tri alkoxy 	Non yellowing coupling agent for amino reactive resins
A-1524 gamma-Ureidopropyl trimethoxysilane	Ureido	Tri methoxy 	Bonding additive suited for contaminated surfaces

General use: amino reactive resins, such as polyurethanes, epoxy, phenolic, urea-melamine and polyamide, requiring a long pot-life.

Epoxy-Silanes

	Organic and Silane Functionalities		Typical Use
A-186 beta-(3,4-Epoxycyclohexyl)-ethyltrimethoxysilane	Cycloaliphatic epoxy	Tri methoxy 	Coupling agent for epoxy composites; compatible with cationic cure chemistries
A-187 gamma-Glycidoxypropyl trimethoxysilane	Glycidoxy	Tri methoxy 	Reactive bonding additive and coupling agent for polyurethane, epoxy, polysulfide and acrylic resins
Coatosil-1770 beta-(3,4-Epoxycyclohexyl)-ethyltriethoxysilane	Cycloaliphatic epoxy	Tri ethoxy 	Coupling and cross-linking agent for waterborne systems; used in latexes and PUD
Wetlink-78 gamma-Glycidoxypropyl methyldiethoxysilane	Glycidoxy	Di ethoxy 	Coupling and cross-linking agent for waterborne systems; used in acrylic SBR and polyurethane adhesives

General use: bonding additives, crosslinking agents and coupling agents, especially suited for carboxy and amino functional resins.

Isocyanato-Silanes

	Organic and Silane Functionalities		Typical Use
A-Link 25 (A-1310) gamma-Isocyanatopropyl triethoxysilane	Isocyanate	Tri ethoxy 	Bonding additive and polymer endcapping
A-Link 35 (Y-5187) gamma-Isocyanatopropyl trimethoxysilane	Isocyanate	Tri methoxy 	Crosslinking agent used in silylated polyurethanes

General use: bonding additives and crosslinking agents especially suited for polyurethanes, amino and hydroxy functional resins; stable in isocyanate resins.

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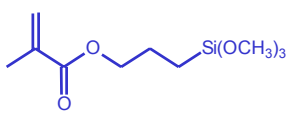
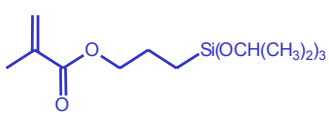
Vinyl-Silanes	Organic and Silane Functionalities		Typical Use
A-151 Vinyltriethoxysilane	Vinyl	Tri ethoxy 	Coupling and cross-linking agent for free radical cured resins, in polyolefins and their composites
A-171 Vinyltrimethoxysilane	Vinyl	Tri methoxy 	Crosslinking agent for PE; moisture scavenger; coupling agent for unsaturated polyesters
A-172 Vinyl-tris-(2-methoxyethoxy)silane	Vinyl	Tri methoxyethoxy 	Water soluble crosslinking and coupling agent; suited for EPDM rubbers
A-2171 Vinylmethyldimethoxysilane	Vinyl	Di methoxy 	Copolymer in vinyl resins, unsaturated polyesters and mercapto resins
Coatosil-1706 Vinyltriisopropoxysilane	Vinyl	Tri isopropoxy 	Suited for waterborne systems; used in acrylic and vinyl emulsions
RC-1 Proprietary vinyl-functional coupling agent	Vinyl	Tri alkoxy	Coupling agent in peroxide cured rubber; mineral filler pretreatment

General use: dessicants, comonomers in free radical-cured resins, crosslinkers in polyolefins, coupling agents for mineral-filled thermoplastics and elastomers.

Methacryloxy-Silanes	Organic and Silane Functionalities		Typical Use
A-174NT gamma-Methacryloxypropyl trimethoxysilane	Methacryl	Tri methoxy 	Comonomer in radical cured resins, such as acrylic, polyester, methacrylate, and PVC; coupling agent for reinforced and filled polyester and acrylics
Coatosil-1757 gamma-Methacryloxypropyl triisopropoxysilane	Methacryl	Tri isopropoxy 	Self crosslinking monomer for waterborne systems, acrylic and vinylacetates; coatings for bottles, building, metal and wood

General use: bonding additives, crosslinking and coupling agents for radical cured resins, especially suited for UV cured systems.

OSi Specialties, a Crompton business, is a leading producer of organofunctional silanes and specialty silicones for the transportation, construction, electronics, consumer care, textile, agricultural and other major industries. We have set the pace and the standard in these industries, earning a global reputation for technical innovation and support.
Specialty silicones, such as silicone surfactants, antifoams, organomodified fluids, emulsions and others, provide improved performance and unique properties in a wide variety of industries: including coatings, paints and inks, personal care and textiles. Silicone surfactants and catalysts are the essential ingredients in the manufacture of polyurethane foams.
Silanes are widely used as coupling agents, adhesion promoters and crosslinkers in the manufacture of tires and rubber, coatings, adhesives and sealants, electrical components, thermoplastics, glass fiber, reinforced plastics and many other products.
Major plants and technical centers in the United States, Europe, Asia and Latin America support sales in nearly 100 countries worldwide.

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