

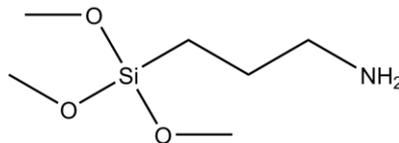
PROMOTER KS 045

CHEMICAL NAME: 3-Aminopropyltrimethoxysilane

FORMULA CHIMICA: $\text{NH}_2(\text{CH}_2)_3\text{Si}(\text{OCH}_3)_3$

CAS: 13822-56-5

MOLECULAR STRUCTURE:



EQUIVALENT BRAND:

-Momentive: A-1110	-Shin-Etsu: KBM-903	-Wacker: GF 96
-Dow Corning: Z-6610	-EVONIK: AMMO	

DESCRIPTION: Versatile amino functional coupling agents used over a broad range of applications to provide superior bonds between inorganic substrates and organic polymers. The primary amine function reacts with a wide array of thermoset, thermoplastic and elastomeric materials.

APPLICATIONS:

1. Coatings, Adhesives and Sealants: An excellent adhesion promoter to glass, aluminum, steel and other inorganic surface in acrylic, polysulfide, urethane, RTV, epoxy, nitrile and phenolic adhesive, sealants and coatings.
2. Glass Fiber and Mineral Batt: Improve the moisture resistance and mechanic strength.
3. Resin-Base Composites: Greatly enhance the flexural, compressive and interlaminar shear strengths before and after exposure to humidity. Improve wet electrical properties.
4. Resin-Sand Foundry: Strengthens the bond between phenolic or furan binders and silicon sand.
5. Grinding Wheels: Promotes an improved, water resistant bond between the abrasive grit and phenolic resin binders.

TYPICAL PHYSICAL PROPERTIES:

Appearance	Colorless to pale yellow transparent liquid
Specific Gravity (ρ_{20}), g/cm ³	1.01
Boiling Point (760 mm Hg), °C	210
Refractive Index (n_D^{25})	1.424
Flash Point, °C	>82
Solubility	Completely and immediately soluble in water (with reaction), alcohol and aromatic and aliphatic hydrocarbons. Ketones are not recommended diluents.

PACKING:

This product is available in 5kg pail, 200L drums and 1000L immediate bulk container.

STORAGE:

Should be stored in dry, cool, ventilated room; keep away from water, moisture, high temperature and fire.

SHELF LIFE:

This product has a shelf life of at least 18 months if stored in tightly closed original container at room temperature. If this product is kept beyond the shelf life recommend on the product label, it is not necessarily unusable, but a quality control should be performed on the properties relevant to the application.