



Technical Data Sheet

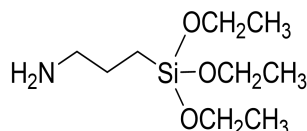
Revision Date: 2025/10/12

Product Description :

Chemical Name : 3-Aminopropyltriethoxysilane (KH550)

CAS No. : 919-30-2

Chemical Structure :



Technical Parameters

Appearance and Form
Content (%)
Density (20°C, g/cm³)

Colorless transparent liquid
≥97
0.935-0.955

Main Applications

3-Aminopropyltriethoxysilane (KH550) is used to couple organic polymers and inorganic fillers, enhancing their adhesion and improving the mechanical, electrical, water-resistant, and anti-aging properties of the final products.

It is applied in mineral-filled thermoplastic and thermoset resins such as phenolic, polyester, epoxy, PBT, polyamide, and carbonate resins, significantly improving the dry and wet flexural strength, compressive strength, shear strength, and other physical and mechanical properties, as well as the wet electrical performance of reinforced plastics, while also improving the wettability and dispersibility of fillers in polymers.

In resin sand casting, it enhances the adhesion of resin sand, improving the strength and anti-washout performance of the sand. In fiberglass and mineral wool production, when added to phenolic binders, it can improve moisture resistance and increase compressive rebound elasticity.

As an excellent adhesion promoter, it is used in polyurethane, epoxy, nitrile, and phenolic adhesives and sealants to improve the dispersion of pigments and enhance adhesion to glass, aluminum, and iron metals. It is also suitable for polyurethane, epoxy, and acrylic latex coatings.

Packaging and Storage

This product can be packaged in 25KG plastic drums, 200KG plastic drums, or iron drums, and we can also provide other packaging specifications according to your requirements.

This product should be sealed and stored in a cool, ventilated, dry place, protected from moisture and fire, ensuring good sealing to effectively isolate air. Moisture in the air will react rapidly, leading to hydrolysis and polymerization. The shelf life of the original packaged product is one year.

This product is irritating to the skin and eyes. If it comes into contact with the skin, wash it off with soap; if it comes into contact with the eyes, rinse with plenty of water immediately.