

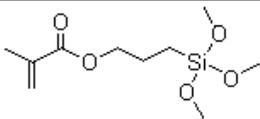
Technical Date Sheet

SiLink™ Silane KH-590

3-Mercaptopropyltrimethoxysilane

Description
A mercapto functional silane suitable to promote the adhesion between fillers such as silica and sulfur crosslinked rubber such as NR, SBR, BR, EPDM and etc.

CAS Number
4420-74-0

CAS Number	
HS(CH ₂) ₃ Si(OCH ₃) ₃	

The Equipvalent Products to Other Manufacturers				
Momentive	DowCorning	Shin-Etsu	Degussa	Wacker
A-189	Z-6062	KBM-803	MTMO	GF 70

Typeical Properties	
Index	Value
Appearance	Colorless, transparent liquid
Specific point (ρ_{20}), g/cm ³	1.057
Boiling Point (760mmHg), °C	93
Refractive Index (DN ²⁵)	1.4400
Flash Point, °C	88
Solubility	Soluble in water after hydrolysis,

alcohol and acetone, and most aliphatic esters at normal application levels fewer than 5%.

Applications and Performance

- 1.Improvement in mineral-filled elastomer properties, including modulus, tensile and tear strength, heat buildup, abrasion resistance, resilience, compression set and cure time may be achieved with KH-590. This silane chemically bonds reinforcing minerals such as silica, clay, mica and talc to the polymer matrix especially the sulfur-cured and metal oxide-cured rubber and elastomer. It can be used as a pretreatment on minerals or added at the time of compounding.
- 2.Mineral-reinforced rubbers such as shoe soles, roller, wheels, white sidewalls, wire and cable insulation are common case KH-590 could be used in.

Packing

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

Storage and Usable Life

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