

Si 75®

Bis(triethoxysilylpropyl)polysulfide

Technical data

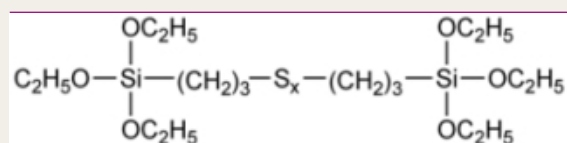
Properties and test methods	Value	Unit	Method
Sulfur content	15.3	%	Evonik method
By-products, GC	≤ 3.0	%	ASTM D 6843
Average sulfur chain length, HPLC	2.35		ASTM D 6844
Average molecular weight	486	g/mol	calculated
Density	1.03	g/cm ³	DIN 51757
Appearance	yellowish liquid		

Registration

Si 75°

AICS (Australia)	listed
DSL (Canada)	listed
IECSC (China)	listed
EINECS (Europe)	pre-registered
ENCS (Japan)	listed
KECI (Korea)	listed
PICCS (Philippines)	listed
TSCA (USA)	listed

Si 75° is a bifunctional, sulfur-containing organosilane for rubber applications in combination with white fillers containing silanol groups.



Properties and application

Si 75° reacts with silanol groups of white fillers during mixing and with the polymer during vulcanization under formation of covalent chemical bonds. Compared to the polysulfidic organosilane Si 69°, Si 75° has a higher temperature stability and therefore allows higher mixing temperatures. Si 75° imparts greater tensile strength, higher moduli, reduced compression set, increased abrasion resistance and optimized dynamic properties.

Application fields are:

Low rolling resistance tires

Packaging and storage

Si 75° - 12 months

The storage stability only applies to material stored under appropriate conditions (original unopened containers, stored dry and between +10 °C and +40 °C, protected from direct sunlight).

Aqueous acids and bases accelerate the transformation of organosilanes to polymer siloxanes. Therefore, organosilanes should be stored in a dry place, away from acids and bases.

The quality of this product can also be influenced by moisture (humidity). During handling and storage, please prevent humidity from entering the container. Keep container tightly closed during storage and close it immediately after use.

Forms of supply:

25 kg PE Container
200 kg PE Drum
1000 kg IBC (PE)

Safety and handling

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from:

Evonik Industries AG, IM-PT-PS

e-mail sds-im@evonik.com

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Fax +49 6181 59-4205

We recommend that information concerning the product safety of our organosilanes be obtained and carefully read prior to their use.

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