

Bis(triethoxysilylpropyl)tetrasulfide

Characteristic physico-chemical data

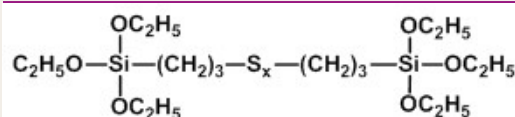
Properties and test methods	Value	Unit	Method
Sulfur content	22.5	%	Evonik method
By-products, GC	≤ 3.5	%	ASTM D 6843
Average sulfur chain length, HPLC	3.70		ASTM D 6844
Average molecular weight	532	g/mol	calculated
Density	1.10	g/cm ³	DIN 51757
Appearance	yellowish liquid		

Registration

Si 69[®]

AICS (Australia)	listed
DSL (Canada)	listed
IECSC (China)	listed
EC (Europe)	listed
ENCS (Japan)	listed
KECI (Korea)	listed
PICCS (Philippines)	listed
TECSI (Taiwan)	listed
TSCA (USA)	listed

Si 69[®] is a bifunctional, sulfur-containing organosilane for rubber applications in combination with white fillers containing silanol groups.



Applications and properties

Si 69[®] reacts with silanol groups of white fillers during mixing and with the polymer during vulcanization under formation of covalent chemical bonds. This imparts greater tensile strength, higher moduli, reduced compression set, increased abrasion resistance and optimized dynamic properties. Si 69[®] is used in almost all fields of the rubber industry where silanol group-containing white fillers are used and optimum technical properties are required.

Application fields are:

- Low rolling resistance tires
- Mechanical rubber goods
- Shoe soles

The product is also available as a dry blend (1:1) with carbon black, named X 50-S[®].

Packaging and storage

Si 69° - min. 12 months

The storage stability only applies to material stored under appropriate conditions (original unopened packaging, stored dry and frost-free and 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:

1.000 kg IBC (PE)

200 kg PE drum

25 kg PE canister

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

Phone +49 6181 59-4787

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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Applied Technology

Evonik Industries AG

Inorganic Materials
Applied Technology Tire & MRG
Brühler Straße 2
50389 Wesseling
Germany
PHONE +49 2236 76 3489
rubber-silanes@evonik.com
www.rubber-silanes.com

Europe/Middle-East/

Africa/Latin America

Evonik Industries AG

Inorganic Materials
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59 8118
rubber-silanes@evonik.com
www.rubber-silanes.com

North America

Evonik Corporation

Inorganic Materials
299 Jefferson Road
Parsippany, NJ 07054-0677
USA
PHONE +1 800 233 8052
rubber-silanes@evonik.com
www.rubber-silanes.com

Asia-Pacific

Evonik (SEA) Pte. Ltd.

Inorganic Materials
3 International Business Park
#07-18 Nordic European Centre
Singapore 609927
PHONE +65 6 809 6851
rubber-silanes@evonik.com
www.rubber-silanes.com