

Technical Data Sheet

Capatue™ SCA-S75X

Abstract

SCA-S75X is a bifunctional, sulfur-containing organofunctional silane used in the rubber industry in combination with fillers like silica that carry silanol groups.

Chemical Name

Bis(triethoxysilylpropyl) disulfide

Synonyms

Bis[3-(triethoxysilyl)propyl]-disulfide

CAS Registry Number

56706-10-6

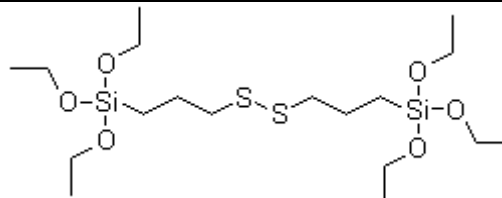
EINECS

260-350-7

Molecular Formula

$C_{18}H_{42}O_6S_2Si_2$

Molecular Structure



Molecular Weight

474.82

Equivalents

Product	Supplier
Silquest® A-1589	Momentive (formerly OSi Specialties)
Z-6920	Dow Corning
Si-75	Evonik (formerly Degussa)

Typical Properties

Index	Value
Appearance	Yellowish liquid
Average Sulfur Chain Length, HPLC	2.2
Sulfur Content, %	14.4
Disulfide Content, %	85
Free Sulfur Content, %	≤ 1.0
By-product Content, %	≤ 3.0
Flash Point, °C	≥ 100

Applications and Performance

SCA-S75X reacts with fillers containing silanol groups during mixing and with the polymer during the vulcanization process under formation of covalent chemical bonds. This imparts better tensile strength, higher module, reduced compression set, increased abrasion resistance and optimized dynamic properties. SCA-S75X is used in many applications where white fillers containing silanol groups are involved and optimum technical properties are required.

1. Tires: An excellent reinforcing agent in tires to reduce heat built-up, reduce rolling resistance and improve the tires' wet grip.
2. Shoe Soles: Generally applicable silane for improving abrasion resistance of sole compounds containing precipitated silica.
3. Mechanical Rubber Goods: General use silane for achieving good dynamic properties, low compression set and high abrasion resistance in mixtures containing white fillers.
4. Adhesives and sealants: An excellent adhesion promoter to glass, aluminum, steel and other inorganic surface in polysulfide, nitrile and other rubber adhesives, sealants and coatings.

Packing

The regular packing of this product is 25kg plastic pail, 200L steel drums and 1000L immediate bulk container.

Storage and Shelf Life

Should be stored in dry, cool, ventilated room; keep away from water, moisture,

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high temperature and fire. This product has a shelf life of at least 12 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.

Product Safety and Handling

When considering the use of any Capatue products in a particular application, you should read our latest Material Safety Data Sheets (MSDS) thoroughly for handling instructions, personal protective equipment if necessary, other safety issue and toxicological data as well as for information on proper transportation, storage and use to ensure that the use you intend can be accomplished safely. Our latest Material Safety Data Sheets (MSDS) and other product safety information are available at www.capatue.com or upon request, from our customer service department.

Use of other material in conjunction with Capatue products may require addition precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

This product is for industry use only; it is neither tested nor represented as suitable for food, medical or pharmaceutical uses.

Limited Warranty Information

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Capatue's products are safe, effective, and fully satisfactory for the intended end use.

Suggestions of use shall not be taken as inducements to infringe any patent.

Capatue's sole warranty is that the product will meet the Capatue sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

Capatue specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability.

Capatue disclaims liability for any incidental or consequential damages.

Customer must do enough tests before their regular production to ensure that our product is suitable for their specific application.

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