



Product information

X 50-S®

Bis(triethoxysilylpropyl)polysulfide

Technical data

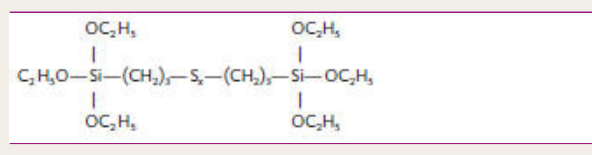
| Properties and test methods | Value | Unit | Method |
|---|-------|-------|-------------|
| Active substance | 50 | % | |
| Sulfur content | 11.3 | % | ASTM D 6741 |
| Volatiles | 2.0 | % | ISO 787-2 |
| Average sulfur chain length of active substance, HPLC | 3.70 | | ASTM D 6844 |
| Average molecular weight of active substance | 532 | g/mol | calculated |
| Pour density | 770 | g/l | ASTM D 1513 |

Registration

X 50-S®

| | |
|---------------------|----------------|
| 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 |

X 50-S® is a blend of the bifunctional, sulfur-containing organosilane Si 69® and an N 330 type carbon black in the ratio 1:1 by weight. The product is applied in the rubber industry in combination with white fillers containing silanol groups.



Properties and application

X 50-S® was developed for customers who prefer to handle Si 69® in a solid version. The Si 69® in the X 50-S® 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. X 50-S® is used in a variety of rubber products where silanol group-containing white fillers are used and where optimum technical properties are required.

Application fields are:

- low rolling resistance tires
- mechanical rubber goods
- shoe soles

Packaging and storage

X50-S® - 12 months

The storage stability only applies to material stored under appropriate conditions (original unopened containers, stored dry and below +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.

Opened bags should be used within a short period of time.

Forms of supply:

25 kg PE container

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

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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