



X 50-S®

Bis[3-(triethoxysilyl)propyl]polysulfide with carbon black

Characteristic physico-chemical data

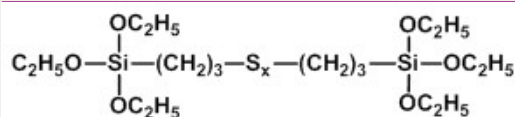
Properties and test methods	Value	Unit	Method
Active substance	50	%	
Sulfur content	11.3	%	ASTM D 6741
Volatiles	2.0	%	ISO 787-2
Average sulfur chain length of active substance, HPLC	3.70		ASTM D 6844
Average molecular weight of active substance	532	g/mol	calculated
Pour density	770	g/l	ASTM D 1513

Registration

X 50-S®

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



Applications and properties

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

X 50-S® - 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.

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

Forms of supply:

25 kg PE bag - 1.000 kg plastic pallet

1.000 kg FIBC (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 Resource Efficiency GmbH, Product Safety Department,
E-mail sds-hu@evonik.com

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

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Applied Technology

Evonik Resource Efficiency GmbH

Business Line Silanes
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 Resource Efficiency GmbH

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

North America

Evonik Corporation

Business Line Silanes
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.

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