Product information

Si 264®

3-Thiocyanatopropyltriethoxysilan

Characteristic physico-chemical data

Properties and test methods	Value	Unit	Method
Sulfur content	12.5	%	ASTM D 6741
Residue on ignition	23.0	%	ASTM D 6740
Average molecular weight	263	g/mol	calculated
Density	1.00	g/cm³	DIN 51757
Appearance	colorless to yellowish liquid		

Registration

Si 264°

NDSL (Canada)	listed
IECSC (China)	listed
EC (Europe)	listed
KECI (Korea)	listed
PICCS (Philippines)	listed
TECSI (Taiwan)	listed
TSCA (USA)	listed
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Si 264° is a bifunctional, sulfur-containing organosilane for rubber applications in combination with white fillers containing silanol groups.

$$C_2H_5$$

 C_2H_5O — Si — $(CH_2)_3$ — SCN
 OC_2H_5

Applications and properties

Si 264° 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 264° is used in a variety of rubber products where silanol group-containing white fillers are used and where optimum technical properties are required. Compared to polysulfidic silanes Si 264° leads to lower compression set values and better abrasion resistance.

Application fields are:

Mechanical rubber goods Shoe soles

Packaging and storage

Si 264° - 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) 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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