



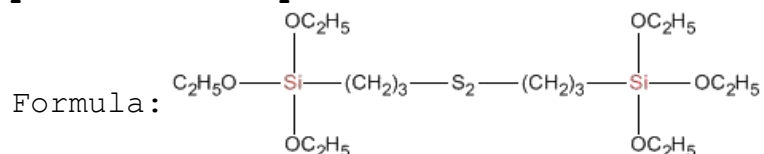
Double -[3-(triethoxysilicon) -propyl] -disulfide

OL-7

Features and Advantages:

Yellow liquid, soluble in low alcohols, ketones, benzene, toluene, acetonitrile, chlorinated hydrocarbons, dimethyl formamide, dimethyl sulfoxide; Insoluble in water.

product description:



Molecular formula: C₁₈H₄₂O₆S₂Si₂

Molecular weight: 474.82

CAS No. : 56706-10-6

Chemical name: bis -[3-(triethoxysilicon) -propyl]
-disulfide

Product specification:

Sulfur content	13.3-15.5%
Density (20 °C, g/cm ³)	1.03±0.02

Tianjin Ruike Chemical Co. LTD
Add: Room 116-11, 160 Xiangyuan Road, Jingjin Science and Technology Valley Industrial Park, Wuqing District, Tianjin
tjrkhg@126.com

Tel: +86 18526852692

www.rk-chem.com



Content of S2	85.0±5.0%
S4 - the S8 content	≤10.0%
Average sulfur chain length	2.20±0.15%

Note: The above data is for reference only and cannot be used as technical specifications

Scope of application:

01-7 has a specific sulfur chain distribution, which improves the processing defects of tethiosilane applied in the silica black-rubber system in the past, improves the productivity of rubber processing industry, and has the potential to replace tethiosilane. In the past, polysulfide compounds were easily desulphurized to form free sulfur in the high temperature mixing process higher than 150°C. The appearance of free sulfur made the high temperature mixing process produce vulcanization effect, resulting in gelation of the rubber mixture system, reducing the rheological property of the system, and seriously leading to the decline of processing performance. But mixing temperature is too low, will cause the silanol groups on the surface of the silica and silane coupling agent was not completely, the reinforcing effect is not enough, also the dispersion of white carbon black in rubber is not good, and the surface of the silica silanol groups react with silane coupling agent to produce ethanol could not be completely evaporated, the rest of the ethanol in the extrusion process to form bubbles. Therefore, in the



past, when silane coupling agents were used to strengthen silica, they had to be mixed in several steps at 150 ° C, which inevitably reduced productivity. The appearance of dithiosilane coupling agent completely avoids the above deficiencies. Its specific sulfur chain distribution characteristics ensure the stability of the product at a certain high temperature, avoid the formation of free sulfur from polythiosilane desulfurization in the process of high temperature mixing; This ensures that the silane coupling agent and silica can fully react at temperatures higher than 150 ° C and achieve uniform dispersion in the rubber at the same time without affecting the processing performance. In this way, the production efficiency of the processing process is greatly improved, and the rubber products have excellent properties such as low heat generation and wear resistance. The excellent physical and chemical properties and processing properties of the product not only improve the physical properties of rubber products, but also reduce the production cost of the rubber products.

Footwear: improve wear resistance, cut resistance and pressure resistance, improve bending;

Drum: improve wear resistance, improve aging resistance, improve processing performance, improve carrying capacity, reduce water absorption, reduce hysteresis;

Mechanical casting products: enhance the modulus, enhance the thermal aging performance, reduce the compression device,



improve the dynamic performance, reduce the expansion of polar solvents, the replacement of filler (non-black filler instead of carbon black);

Rubber hose: improve the wear resistance of the appearance, enhance the thermal aging performance, enhance the modulus, reduce the compression device, enhance the adhesion between the enhancer;

Solid tires: improve wear resistance, reduce hysteresis, enhance modulus, improve processing performance, maximize the bonding performance;

Tire: improve the wear resistance and thermal cracking of tread, improve the bonding performance of tire body and filler, improve the bonding performance of tire buffer layer;

Flat tape: improve wear resistance, improve resistance to vulcanization, reduce the cost of replacing carbon black with clay, improve the bonding property of tire curtain, increase the resistance life and modulus;

V-type tape: ENHANCE modulus, improve wear resistance, increase torsion life, improve the adhesion of reinforced material.

Packing: 5L 25L 200L 1000L

Storage: The container should be sealed after opening to prevent water vapor from entering and hydrolyzing. Stored IN THE original unopened container at ROOM temperature, the shelf life of this product is one year from the date of production. After the expired product passes the test, the buyer will



decide whether to continue to use.

Remark: The company is only responsible for the sales specifications of the products at the time of delivery, and is not liable for any indirect or incidental damage.