

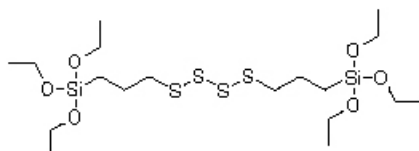
TECHNICAL DATA SHEET

Si-69

Chemical Name: Bis [3-(triethoxysilyl)propyl] tetrasulfide

CAS NO. : 40372-72-3

Formula: $(C_2H_5O)_3SiCH_2CH_2CH_2-S_4-CH_2CH_2CH_2Si(OC_2H_5)_3$



Formula Structure:

Equivalent Type: SI-69(Degussa, German)/Z-6940(Dow Corning, US)/KH-8454(China)

A-1289(Compton, US)/Y- 6194(United Carbide, US)/KBE-846(Shin-Etsu, Japan)

Specifications

Test Item	Target Values(Spec.Limits)
Sulfur Content	22% ± 1%
The average sulfur chain length	3.75±0.15
*γ ₂ Content	≤3.0%
Viscosity 25°C	≤ 14(cps)
S ₂ content	17±3%
S ₃ content	30±4%
S ₄ content	24±3%
S ₅ to S ₈ content	27±3%

* γ₂: γ-chloropropyltriethoxy silane.

Application Range

- Si-69 is a kind of multifunctional silane coupling agent that has been used successfully in the rubber industry. It is used to improve physical and mechanical properties of vulcanizates.
- Si-69 is able to markedly improve tensile strength, tearing strength and abrasive resistance and reduce compression set of vulcanizates. In addition, it can reduce the viscosity and improve the processability of rubber products.
- Si-69 is especially suitable to improve the reinforcing properties of fillers that contain hydroxyl groups in all unsaturated polymers having double bonds or their blends. Silica, talc powder, mica powder and clay can be used in combination with crosile-69 in polymers such as NR, IR, SBR, BR, NBR and EPDM. Recommend dosage 1.0-4.0 PHR

Package and storage

- Package: 25kg or 200kg plastic drum and 1000 kg IBC
- Storage: Kept in a low temperature, dry and ventilated place, avoid direct sunlight.
- Shelf life: One years in ventilating, cool and dry area.