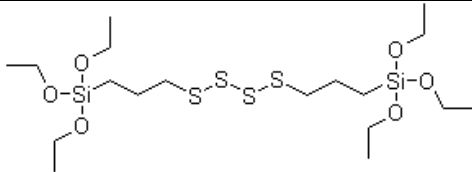


**Coupling Agent SI69**

Chemical Name		Bis (3-triethoxysilylpropyl) tetrasulfide	
CAS NO.		40372-72-3	
Synonym		SI69(Degussa),Z-6940(Dowcorning),A-1289(Crompton),KBE-846(Shin-Etsu)	
Structure			
Revision Number	02	Date	01/12/2009
Specification			
Item	Si69		Test Method
Appearance(visual inspection)	Translucent light yellow liquid		
Sulfur Content%(of active S)	22.7±0.8		GB 50053-2009
Alcohol Content%≤	1.0		GB 50051-2009
Viscosity cSt	7-12		GB 50057-2009
Other impurities%≤	4.0		GB 50055-2009
Color≤	6		GB 12007-2008
Properties:			
A pale yellow clear liquid with light odor of alcohol and soluble easily in alcohol, acetone, benzene, toluene etc. Insoluble in water. It can hydrolyze when contact with water or moisture. It's flash point is 102℃, specific gravity is 1.08g/cm ³ .			
Application			
It is a multi-purpose silane coupling agent which is used in rubber and plastic industry. It can improve the rubber's physical and mechanical properties, tensile strength, anti-peel strength, wear-resisting, etc.; Meanwhile it may reduce the material viscosity and enhance workability. It is especially suitable for the vulcanized rubber system which uses silica, silicate and so on. As reinforcing additive. The suitable fillers contain silica, talc powder, clay, mica powder, and pottery clay and so on, and the suitable polymers contain NR, IR, SBR, BR, NBR, EPDM and so on.			
Recommend Dosage			
In dynamic and static conditions, It is used for producing these rubber products: tire, hose, rubber roll, belting, cable, footwear and mechanical founding products. It can improve abrasive resistance, cutting resistance and pressure resistance, reduce hysteresis loss and improve mechanical and adhesive properties, increase thermal ageing performance, modulus and flex life. The Recommend dosage 1.0-4.0phr.			
Storage			
It should be stored in the dry and cool place with good ventilation avoiding exposure of the packaged product to direct sunlight.			
Package			
Drum : 200kg/drum		Pallet(1.1*1.1): 700kg	

It is also available as 50% masterbatch.