

ESL25

Silicone Silane Technical Data Sheet

Chemical Name: 3-Isocyanatopropyltriethoxysilane (IPTES)
CAS: 24801-88-5
Molecular Formula: $C_{10}H_{21}NO_4Si$
Molecular Weight: 247

Specification

Item	Lower	Upper
Purity (GC) %	>= 96%	
Color (APHA)	<= 30max	
Density (g/cm ³ , 25 °C)	0.95 ~ 1.05	
Refractive index (25 °C)	1.414 ~1.424	

Notes: These figures are intended as a guide and should not be used in preparing specifications.

Description

ESL25 is a new type of bifunctional agent with isocyanato group and triethoxysilyl group, can be easily hydrolyzed and crosslink. The dual nature allows ESL25 bind chemically both inorganic materials(glass, sand and fillers) and organic polymers(thermo-sets, thermo-plastics). By adding it into rubber, the mechanical properties of the vulcanizates, in particular the elongation properties and the abration resistance, are improved without the difference in rebound resilience. Also can be used in adhesives and polyurethane sealant and coating application in order to improve self cross-linking, moisture curable and excellent adhesion to inorganic materials.

Application

As a modifier to alkoxysilyl crosslinked fluororesin flid

To promote adhesion to silicone rubber

As an additive to Urethane Paints, adhesives, sealing materials, and a modifier to hydroxyl resins(acrylic resin, PVA, polyeter), etc.

Package and storage

ESL25 Should be hermetically stored, because of its reactivity in the presence of moisture.

ESL25 is supplied in 35Kg,200kg (net weight) internally new iron drum

ESL25 can little stimulate skin and eyes, so labor protection is necessary when contacting