

ESL24

Silicone Silane Technical Data Sheet

Chemical Name: 3-Isocyanatopropyltrimethoxysilane (IPTMS)
CAS: 15396-00-6
Chemical Institution: $O=C=N-CH_2CH_2CH_2Si(OCH_3)_3$
Molecular Formula: $C_7H_{15}NO_4Si$
Molecular Weight: 205

Specification

| Item | Lower | Upper |
|-------------------------------------|---------------|-------|
| Purity (GC) | 95% | 98% |
| Color (APHA) | 30max | 10max |
| Density (g/cm ³ , 25 °C) | 1.020~1.080 | |
| Refractive index (25 °C) | 1,4190~1,4220 | |

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

Description

ESL24 is a new type of bifunctional agent with isocyanato group and trimethoxysilyl group, can be easily hydrolyzed and crosslink. The dual nature allows ESL24 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 alkoxyisilyl 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

ESL24 Should be hermetically stored, because of its reactivity in the presence of moisture.

ESL24 is supplied in 35Kg,200kg (net weight) internally new iron drum

ESL24 can little stimulate skin and eyes, so labor protection is necessary when contacting



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ESUNG MATERIALS

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