

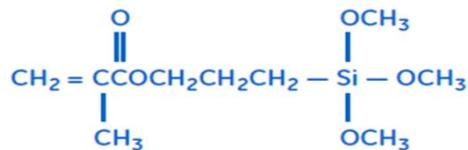
ESUNG ESL8370

Silane Coupling agent Technical Data Sheet

PRODUCT DESCRIPTION

- ESL8370 is Gamma-Methacryloxypropyltrimethoxysilane.

Chemical Institution:



Features and Benefits

- The methacryloxy silane produced by ESL8370
 - Significantly improves composite strengths when the composite is reinforced with glassfiber roving sized with a typical polyester-compatible formulation. These formulations normally incorporate silane coupling agents, film-foaming resins, lubricants and antistatic agents.
 - Enhances the strength performance, both initially and after wet-conditioning, of cured polyester resin composites filled with silica, glass, silicates and many metal oxides.
 - Enhances the wet electrical properties of many mineral-filled composites, such as crosslinked polyethylene and polyvinyl chloride.
 - Maybe copolymerized with vinyl acetate and acrylate or methacrylate monomers to prepare silylated polymers that are moisture-curable. These silylated polymer may be used in coatings, adhesives and sealants to provide superior adhesion and durability

TYPICAL PRODUCT DATA

Appearance	Clear light straw liquid
Molecular Weight	248.100
Specific Gravity at 25/25 °C	1.040 ~ 1.055
Refractive Index nD 25 °C	1.428 ~ 1.432
Flash point, Tag Closed Cup °C	108
Boiling Point °C	255

SOLUBILITY

- ESL8370 is soluble in ethanol, methanol, isopropanol, acetone, benzene, toluene, and xylene.
After hydrolysis it is soluble in water with adequate stirring if the pH is 4.0. Hydrolysis releases methanol.

HSE HSL8370

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APPLICATION

- HSL8370 has found its utility in the manufacturing of many intermediate goods such as : unsaturated polyester, ethylene-propylene diene copolymer, polystyrene, ABS polyurethane, polybutadiene and polyethylene crosslinked by peroxide. For the finished goods like polyester reinforced material, Ethylene-propylene-non conjugated diene cable and so on Modified by silane coupling agent, dihydrate gypsum gesso, can't only be used as filling of artificial marble to reinforce the bending strength of board but also greatly reduce the production cost artificial marble.
- Glass Fiber Soakage Agent
Glass fiber soakage agent is used in the treatment of glass fiber. It contains filmformer, lubricant, anilistatig, silane coupling agent and water etc. The concentration of the silane coupling agent should be of 0.3% ~ 0.6%
- Electrical wire and cable
When used in electrical wire and cable, silane HSL8370 can greatly improve its mechanical performance and electrical performance in wet state. When applied in argil, HSL8370 can dramatically better the consumption factor, inductance and capacitive reactance of the EPM (ethylene propylene monomer) and EPDM (Ehylene-Propylene-Diene Monomer) systems crossed linked by peroxide and filled with argil. ESL8370 results 2.5 times better than vinly silane with the same dosage.
- Filler treatment
This silane can improve the mechanical strength of polyester composite materials made from filling white carbon black, Glass, silate and metal oxide in either dry or wet state, for instance, crosslinked polysthylene and polyvinyl chloride.
- Adhesive and coating
ESL8370 can be applied in acrylic resin and polyester adhesive in the purpose of improving its water resistance and adhesion stress with inorganic material, and also lowering its solidification value.

PACKAGE

- 20kg pail
- 215kg drum