

# Silane Coupling Agent LD-550

## First, corresponding brand abroad

A 1100 of Union Carbide in the United States

## Second, chemical name

APTES

## Third, product properties

This product is an amino-functional silane

Appearance: colorless transparent liquid

Boiling point: 217

Density (25 °C): 0.946 g/cm<sup>3</sup>

Refractive index (25°C): 1.4205

Flash point: 96

Active ingredient: 100%

It is soluble in benzene and ethyl acetate, insoluble in water, and could react with water.

## Fourth, applications and notes

1. This product is an excellent fiberglass treatment agent, it could improve mechanical strength of composite materials, electrical performance and ageing resistance.
2. This product is suitable for copolymer acid resins, epoxy resins, phenolic resins, melamine-formaldehyde resins, nylon, polysulfone and other FRP materials.
3. FRP which has been treated by LD-550 can be widely applied to mechanical parts, building materials, pressure vessels and some reinforced materials for special applications.
4. In addition LD-550 could be used as adhesive when rubber and metal bond, in foundry industry it is used as the fortifier for no-baked sand core of a resin.
5. The typical fillers could be composite silicon materials of glass fibers, glass cloth, glass beads, white carbon black, talc, clay, mica, coal ash and clay.
6. This product should be stored at a room temperature, valid for one year. The end product is packed in plastic drums 5Kg or 10Kg. Additional specifications must be requested.