

ChangFu® PM32
(2-(Trimethoxysilyl)ethyl) phosphonic acid, dimethyl ester



Description	ChangFu® PM32 is a specialty silane that incorporates phosphorus flame-retardant elements directly into its molecular skeleton. This unique structure allows it to provide enhanced interfacial adhesion and intrinsic flame retardancy for high-safety composite materials.
Features & Benefits	Dual function as both a coupling agent and a flame retardant. Provides long-lasting protection by chemically bonding at the interface. Able to improve the dispersion and compatibility of inorganic flame-retardant fillers and deliver synergistic flame-retardant effects.
Applications	Used in electronic and electrical fields such as printed circuit board substrates, electronic encapsulants, and flame-retardant cable compounds. Used in manufacturing flame-retardant glass fiber-reinforced plastics (FRP) and sheet molding compounds (SMC) for engineering plastics like nylon (PA) and polyesters (PBT, PET). Used in the production of flame-retardant coatings, sealants, glass wool, and rock wool.

Typical Properties

Description	(2-(Trimethoxysilyl)ethyl) phosphonic acid, dimethyl ester
Product No.	ChangFu® PM32
CAS No.	20728-21-6
Formula	C ₇ H ₁₉ O ₆ PSi
Purity	min 95%
Appearance	Clear liquid

Package	Offered in 25L pails and 200L drums. Custom packaging is available.
Storage	Stored in a cool, well-ventilated place. Keep container tightly closed.
Transportation	See the corresponding Safety Data Sheet.