Firebrake® 500 is a dehydrated zinc borate with multifunctional fire retardant applications in a variety of polymers. Since it contains no water of hydration, it is stable up to 600°C. It can therefore be used in polymer systems requiring very high processing temperatures. It can be fed to extruders, calenders, or injection moulding equipment in the same way as other solid polymer additives.

Applications

Firebrake 500 can be used as a flame retardant and smoke suppressant in a variety of polymers including polyetherketone, polysulfone, fluoropolymer, polyester, and nylon. The very significant beneficial effect of Firebrake 500 on the rate of heat release is of special interest where this factor is important, as in aircraft applications.

Storage

Firebrake 500 should be stored in a sealed container because of its tendency to gradually pick up surface moisture in high humidity environments. This surface moisture is easily removed by heating at about 200°C. The product is chemically stable and shows little tendency to cake.

*Protected by US and international patents.

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