

A: Product description

Proprietary phosphorus based halogen free, flame retardant

B: Physical properties

Appearance:	Fine powder
Color	White
Odour:	Slight
Phosphorus (%)	~ 36%
Density (gr/cc)	~ 1,8 gr/cc
Particle size:	D ₅₀ : ~ 3 -7 µm
Bulk density:	~ 450 kg/m ³

C: Toxicology

Classification Xn; R11

Maximum allowable workplace concentration: not stipulated

D: Transport

Not regulated

E: Applications

Phoslite B85AX is a very effective solution for flameproofing PBT, PA 6 and glass fibres reinforced, showing outstanding mechanical properties.

PBT: typically Phoslite B85AX is used at 17% to 20% to provide flame retardancy (UL 94 V0 at 1.6 mm) to 30% Glass Fibers Reinforced, 21% to 24% for unreinforced PBT, GWFI > 960°C.

PA 6: typically Phoslite B85AX is used at 21% to 24% to provide flame retardancy (UL 94 V0 at 1.6 mm) to 30% Glass Fibers Reinforced, GWFI > 960°C.

Synergistic effect are known with some other flame retardants like Melamine Cyanurate or Zinc Borates

Additional application data and further developments can be discussed with Italmatch Chemicals Technical Development Center.

F: Processing

Phoslite B85AX does not interact with the common processing additives like: stabilisers, crosslinking agents, processing aids, pigments, antidripping. Fillers or Flame retardants with residual acidity as Melamine Polyphosphate may decompose Phoslite B85AX violently.

Max processing temperature: 300°C.

G: Packaging

The product is available in 15 Kg plastic bags.

H: Storage and handling

The product is stable if maintained in the original bags and in a dry place at room temperature.

Keep the product away from strong oxidizing substances and hot alkaline solutions.

Handle the product in compliance with good industrial practice.

The information provided is based on our present knowledge and given as guidance for product use. The loading reported should be only regarded as guidance, however experimental check is needed on the polymer used and the flame retardancy class desired. The data reported do not constitute a guarantee. Quality of product is guaranteed under Italmatch Chemicals General Conditions of Sale. Existing property rights, if any, must be observed.

PHOSLITE — *Halogen free powder flame retardants*