

FR SYNERGIST-SODIUM ANTIMONATE



Introduction

Sodium Antimonate is a flame retardant with very low tinting characteristics. It is used for plastics, paints, fibre glass resins and various textile goods. Sodium antimonate is used as flame retardant synergist. Sodium antimonate has an antimony content of 61-63 wt % and a bulk density of 3.94- 4.65 gm/cm³. It is a white powder and has a pH of around 9-11 when dissolved in water. Sodium antimonate contains less antimony than either antimony trioxide or pentoxide and is thus less effective as flame retardant, however, its unique pH and low refractive index makes the antimonate the most desirable flame retardant synergist for polymers that hydrolyze when processed with acidic additives or in polymers for which deep color tones are needed.

Applications

- 1 It is used as flame retardant of engineering thermoplastics and rubber.
- 2 It is used as covering agents and whitening agents in enameled and ceramic products.
- 3 It has major advantage in sensitive polymers such as polyethylene terephthalate where conventional antimony trioxide flame retardant synergists can promote depolymerization during processing.

Benefits

- 1 It is a better alternative to antimony trioxide in polymers that hydrolyze when processed with acidic additives.
- 2 It is well resistant to long periods of strong ultraviolet ray exposure.
- 3 Good transparency and deeper colour tones .



Specifications

Test	Specification	Test Method
Appearance	Form: Fine Powder Colour: White	Visual
Fe ₂ O ₃ content	< 0.03 %	Atomic absorption spectroscopy
Sb ₂ O ₅ Content	> 80.35 %	Atomic absorption spectroscopy
Sb Content	>60.50 %	Atomic absorption spectroscopy
Na ₂ O Content	15.0 +- 0.5%	Atomic absorption spectroscopy
Particle size (Typical) D50	3-5 micron	Particle size Analyser

Product FDA Status

SA is not recommended for food contact polymers.



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