

Technical Data Sheet

ProFlame[®] ZS

ProFlame-ZS is a Zinc stannate flame retardant synergist that is safe for human health and the environment, and is increasingly being used in green, “antimony-free” applications, particularly in the electronics industry. It is extremely effective in PVC systems for cable sheathing, epoxy resins for printed circuit boards, polyamides and surface coatings. ProFlame-ZS is insoluble in water and thermally stable (no weight loss) at very high temperatures (>400 °C).

At higher temperatures (400 °C - 600 °C), zinc and tin ions can be volatilised or liberated from their structure to exert catalytic activity. ProFlame-ZS is part of a family of n-type wide bandgap semiconductors with a high concentration of free electrons in the conduction band, thus leading to high optical transmissions in combination with electrical conductivity.

Chemical name: Zinc Stannate

CAS NO. : 12036-37-2

Molecular weight: 232.15

Chemical formula: ZnSnO₃

Technical Data:

Items	Spec
Appearance	White powder
Sn content, %	≥46.00
Zn content, %	≥26.00
Cl content, %	≤0.30
Moisture,%	≤0.50
Decomposition Temperature,°C	≥570
Particle size D90,mm	≤0.01
Density, g/cm ³	3.9

Usage:

©Coating Additives

- ▶ Smoke suppressant and flame retardant synergist for flame retardant paints.
- ▶ Transparent conductive oxide used in the manufacture of films for solar cells, touch screens, and energy efficient glass.

©Polymer Additives

- ▶ Smoke suppressant and flame retardant synergist with co-flame retardants. For polymer processing at temperatures above 220 °C.
- ▶ Co-additive in phosphate flame retardant containing polymer formulations to optimise char formation.

©Process Chemicals

- ▶ Solid lubricant additive in friction materials.

Package & Storage

ZS is delivered in drum with inner bag, net weight 25.0±0.1kg .

Store in a dry and ventilated warehouse. Minimum shelf life is 12 months under proper stored condition.

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