

ANTIMONY TRIOXIDE (ATO)

NON HALOGENATED INORGANIC FLAME RETARDING CHEMICAL.

Application:

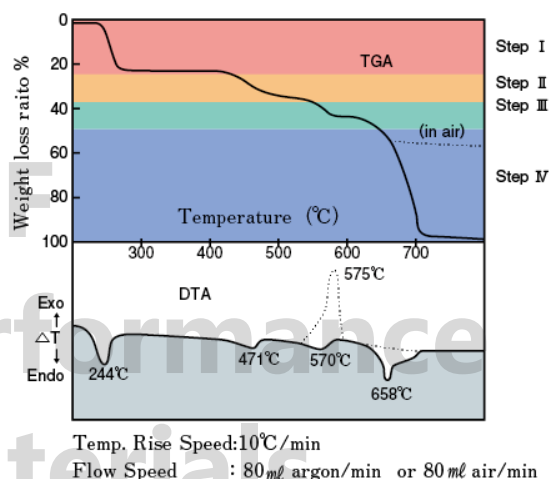
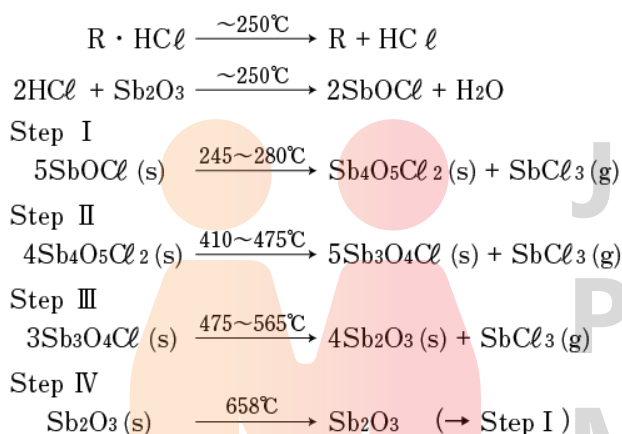
Used as a Synergist in PVC and with Brominated and Chlorinated Flame Retardants As one kind of flame retardant, Sb₂O₃ can be widely used in Polyvinyl Chloride, CPE Polyethylene Polypropylene, Polystyrene, Nylon, Eng Resin, Paper, etc

Flame Retardant Mechanism:

Antimony Trioxide reacts with Halogenated Compound and creates the Chemical Compounds, which generate the flame retardant function, through the following process

- Stop action of thermal de-composite chain reaction under gas phase
- Sealing action against oxygen under gas phase
- The formation of carbonaceous char under the solid phase

The above reactions are considered to be as follow;



- Used as Passiavator in the Catalytic Cracking and Catalytic Reforming process of heavy Oil and Resudual Oil.
- Used as Non-Magnetic Ceramics used for making Pressure Sensitive Ceramics and magnet
- Used as filling agent and flame retardant in Rubber/plastic Industry
- Used as Covering Agent in Porcelain Enamel and Ceramics

Head parts in Electronic Industry:

Used as white Dye and Flame Retardant for Paint in Painting industry Used as a Catalyst for Organic Synthetics

Specification :

Purity	Sb ₂ O ₃ Min 99.80%
Chemical Impurities	As ₂ O ₃ max 0.05 PbO max 0.08 Fe ₂ O ₃ max 0.005 % CuO max 0.002 %
Whiteness ≥ min	96 Physical
Average Particle size (um)	0.9-1.6

Physical Form: White Fine Powder form.

Packing: 20 Kg or 25 Kg per Bag, out layer Kraft paper internal layer polyethylene