

Antimony Trioxide

Chemical Name: Antimony(III) oxide

Molecular Formula: Sb₂O₃



Molecular Structure:

CAS NO.:1309-64-4

Molecular Weight:291.5

Specification:

Brand No.		Sb ₂ O ₃ 99.90	Sb ₂ O ₃ 99.80	Sb ₂ O ₃ 99.60
Chemical Composition	Sb ₂ O ₃ %≥	99.90	99.80	99.60
	As ₂ O ₃ %≤	0.030	0.05	0.06
	PbO%≤	0.040	0.08	0.10
	Fe ₂ O ₃ %<	0.002	0.005	0.006
	CuO%<	0.002	0.003	0.005
	Se%<	0.002	0.003	0.005
Physical Properties	The average particle size(μm)	0.4-0.6	0.4-0.6	0.4-0.6
		0.6-0.9	0.6-0.9	0.6-0.9
		>0.9	>0.9	>0.9
	Whiteness%≥	98.00	98.00	97.00

Note: When the demand side requires otherwise, according to the needs of the organization of production.

Properties:

Antimony trioxide is a pure white ultra-fine powder in cubic crystal system. It is the most stable compound of antimony, with the molecular weight 291.5 and melting point 656°C, cubic crystal type (a stable type) has the density of 5.3g/cm³. Antimony trioxide is also named antimony white, and belongs to amphoteric oxide. It is insoluble in water, ethanol, dilute sulfuric acid, dilute nitric acid, but soluble in concentrated hydrochloric acid, sulfuric acid, alkali, and tartaric acid.

Purposes:

(1) Antimony trioxide is applied to plastic products such as polyvinyl chloride, polyethylene, polypropylene, polystyrene, ABS resin, polyester, polyurethane foamed plastic, epoxy resin and phenolic resin, as well as synthetic fiber like polypropylene and polyester as flame retardant synergist in a large amount. Adding halogen flame retardant and antimony trioxide synergist in a certain ratio in high polymer materials may obviously improve OI of material burning. With a remarkable strong flame retardant effect and high cost performance, it is the most important flame retardant synergist.

(2) It is used as rubber filler, passivator of petrochemical industry, clarifier of glass manufacturing, colorant of ceramics and enamel industry, and used in manufacturing of photoelectric elements, solid lubricating materials, anti-fouling paint of vessels, medicine, etc.

Packaging:

It is packed in a double-layer bag. The outer layer is a paper-plastic outer bag while the inner layer is a PE bag, with the net weight of 25.0kg per bag. It can also be packed as one ton per pallet; high-strength ton bag one ton per pallet; customized packaging is available.

Storage: It shall be stored in a clean and dry place.