

## TECHNICAL DATA SHEET

### INTRODUCTION :

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/cm<sup>3</sup>. 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.

PROPERTIES	Antimony Trioxide		
	PURITY		
Sb <sub>2</sub> O <sub>3</sub> ≥	99.50%	99.90%	99.80%
As <sub>2</sub> O <sub>3</sub> ≤	0.06%	0.02%	0.04%
PbO ≤	0.12%	0.02%	0.05%
Fe <sub>2</sub> O <sub>3</sub> ≤	0.006%	0.002%	0.004%
CuO ≤	0.002%	0.002%	0.002%
Se ≤	0.005%	0.002%	0.004%
Cd ≤	5ppm	5ppm	5ppm
Average Particle Size ( μm)	≤0.8	≤0.8	≤0.8
Whiteness ( % )	≥93	≥97	≥97

### AVAILABLE TYPE :

- 1.Normal : Sb<sub>2</sub>O<sub>3</sub> (Purity of 99.9% / 99.8% / 99.5% )
- 2.Dust-free
- 3.Big Particle Size / Small Particle Size
- 4.Sb<sub>2</sub>O<sub>3</sub> Masterbatch with different carrier resin (PE/EVA/PP/LDPE/PVC/ABS/PS/PBT/PA)

### APPLICATION :

ATO is widely used in PVC,PP,PE,PS,ABS,PU,PA,coating,synthetic resin,synthetic fiber as flame retardant and additives,high flame retarding ability,less influence on mechanical properties of base material.ATO can also be used in rubber industry as filler and flame retardant ,in enameled and ceramic products as covering agent and whitening agent and as catalyst for organic synthesis.

**PACKAGE:** 25KG/BAG

**SAFETY INSTRUCTIONS:** Please refer to SDS for more information

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