FARETAR™ ATO

Antimony Trioxide (Sb₂O₃)

Introduction

FARETAR™ ATO is the most widely used additive flame retardant. It is often used together with other flame retardants and smoke suppressants, and synergistic effects can be generated among the components.

General information

Chemical Name	Antimony Trioxide
Synonyms	antimony (III) oxide,
Molecular formula	Sb_2O_3
CAS No.	1309-64-4
Appearance	white powder
Molecular weight	291.5
Melting point	656 °C
Boiling point	1425 °C
Vapour density	10 (air = 1)
Specific gravity	5.2
Density (g cm⁻³)	5.7

Characteristics

Antimony trioxide is the most widely used additive flame retardant. It is usually added to other flame retardants to increase the efficiency.

Application

FARETAR^{TM} ATO is an additive flame retardant widely used in polyethylene, polypropylene, polystyrene, PVC, polyester, epoxy resin, polyurethane and other plastics.

When used alone, the flame retardant effect is low. When used together with phosphate, chlorinated compounds and brominated compounds, it has a good synergistic effect, and the flame retardant effect is significantly improved.

Specification

Item	Unit	Sb_2O_3 99.5%	Sb_2O_3 99.8%
Sb_2O_3	%	≥ 99.50	≥ 99.80
PbO	%	≤ 0.10	≤ 0.08
As_2O_3	%	≤ 0.06	≤ 0.05
Whiteness	min	≥ 95	≥ 96
Average Particle Size	μm	0.8 - 1.4	0.4 - 0.9
Sieve Refusal (45μm/325 mesh)	%	≤ 0.1	≤ 0.1

*Test method: GB/T 4062-2013

Packing

20 kg or 25 kg per bag, out layer kraft paper internal layer polyethylene film.

500 kg or 1000 kg flexible freight bags.

We can also offer different packing based on the customers' requirements.

Storage

Store in dry, normal temperature, moisture prevention.