

# Antimony

## Trioxide Powder



NS6130-05-515

APS  
40-50μm



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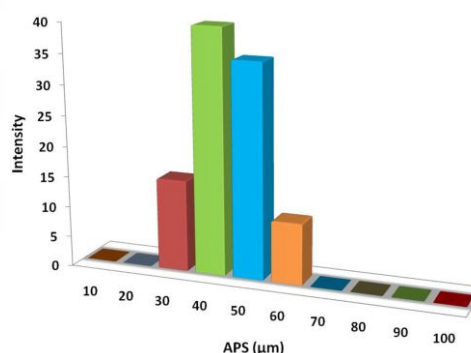
# Antimony Trioxide Powder

Antimony trioxide ( $\text{Sb}_2\text{O}_3$ ) is an inorganic commercial compound and very important on antimony materials family. It is found in nature as valentinite and senarmontite minerals and  $\text{Sb}_2\text{O}_3$  is soluble in water with the hydrolysis. Antimony trioxide and antimony pentoxide are mostly used as a flame retardant additive. Antimony trioxide is mostly used in plastic (polymer) materials while antimony pentoxide is mostly used in the textile industry and special applications. Antimony trioxide is available in a white stable crystalline powder.

Antimony is a metalloid (i.e., possesses electronegativity and ionization energy properties). Antimony trioxide is primarily used as a plastic catalyst in the manufacture of polyethylene terephthalate (PET) plastic as well as in combination with halogenated compounds as a synergist to enhance flame-inhibiting properties.

## Quick Facts

Product	:	Antimony Trioxide Powder
Stock No	:	NS6130-05-515
CAS	:	1309-64-4
Purity	:	99%
Color	:	White
Form	:	Powder



## Technical Specification

Formula	APS	Molecular Weight	Melting Point	Boiling Point
$\text{Sb}_2\text{O}_3$	40-50μm	291.518g/ml	656°C	1425°C

## Chemical Composition

Product	Weight Percent (nominal)
Antimony Trioxide Powder	$\text{Sb}_2\text{O}_3$ 99%

## Applications

- Enamels for ceramics and plastics
- Pigments in paint and ceramics
- Stabilizers in glass, rubber
- Batteries

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