

Bismuth Trioxide Powder

NS6130-05-506

APS

40-50µm





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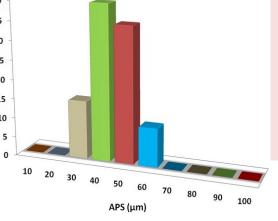
Bismuth Trioxide Powder

Bismuth (III) oxide is the most industrially indispensable compound of bismuth. Bismuth trioxide is commonly utilized to produce the "Dragon's eggs" effect in fireworks. Bi2O3 as it is principally an ionic conductor and in addition to electrical properties, thermal expansion properties are very important when considering possible applications for solid electrolytes.

Bismuth (III) oxide has also been utilized as a sintering additive in the Sc2O3- doped zirconia system for intermediate temperature SOFC. Bismuth oxide acquired great attention since they are used in the wide area of applications such as in glass technology. The fabricated glasses are characterized by a high dielectric constant, high density, high refractive index, and extended transmission in mid-IR, etc.

Quick Facts

Product	:	Bismuth Trioxide Powder	40
Stock No	:	NS6130-05-506	35 30
CAS	:	1304-76-3 ≥	25
Purity	:	ntensit 11	
Color	:	Bright Yellow Powder	15 10
Form	:	Powder	5



Technical Specification

Formula	APS	Boiling Point	Melting Point
Bi ₂ O ₃	40-50µm	1890 °C	817° C

Chemical Composition

Product	Weight Percent (nominal)	
	Bi ₂ O ₃	Other Metal
Bismuth Trioxide Powder	99%	

Applications

- **Optical** glass
- Flame-retardant paper
- In glaze formulations

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