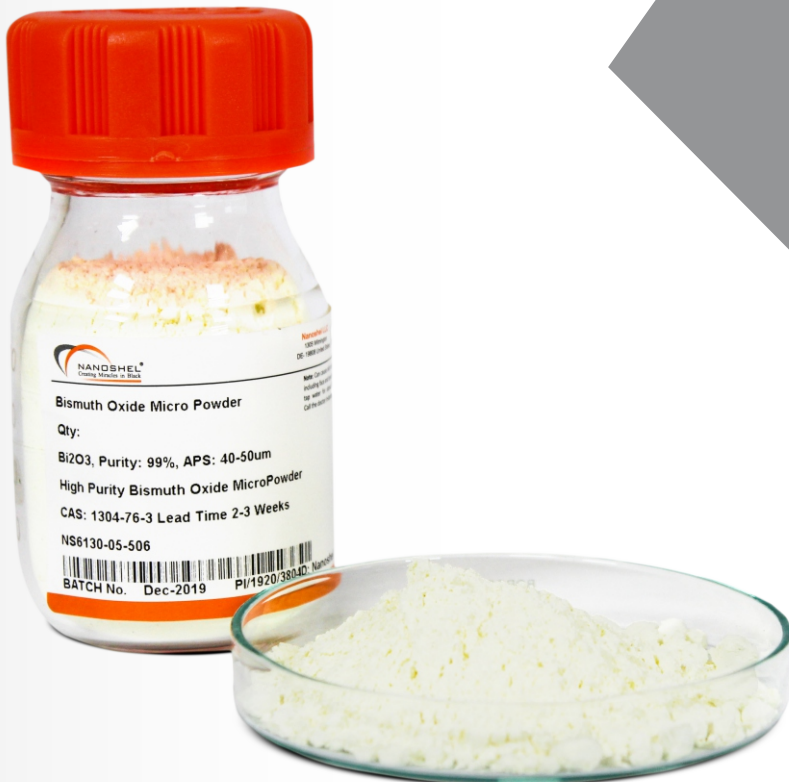


Bismuth Trioxide Powder







NS6130-05-506

APS
40-50 μ m



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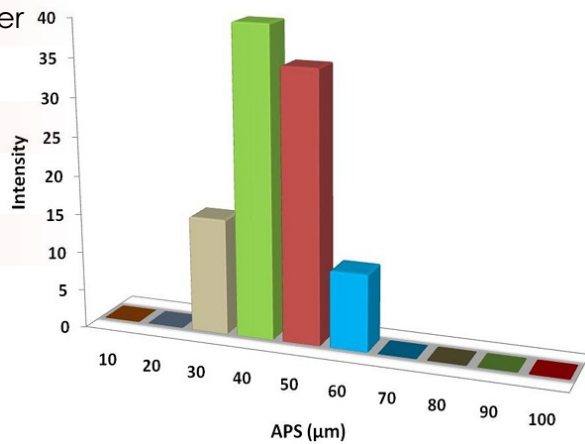
Bismuth Trioxide Powder

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
Stock No	:	NS6130-05-506
CAS	:	1304-76-3
Purity	:	99%
Color	:	Bright Yellow Powder
Form	:	Powder



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