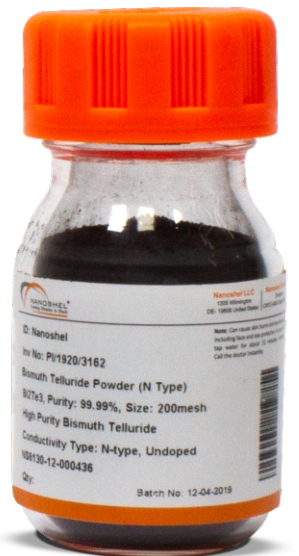


BISMUTH TELLURIDE POWDER

Stock No: NS6130-12-000436



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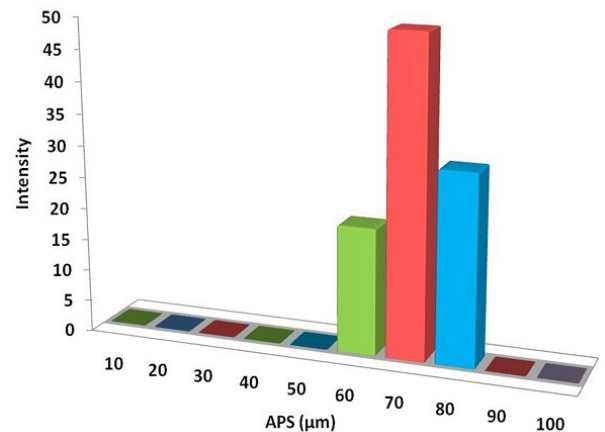
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Bismuth Telluride Powder

Bismuth telluride (Bi_2Te_3) is a gray powder that is a compound of bismuth and tellurium also known as bismuth(III) telluride. It is a semiconductor, which, when alloyed with antimony or selenium, is an efficient thermoelectric material for refrigeration or portable power generation. Bi_2Te_3 is a topological insulator, and thus exhibits thickness-dependent physical properties. Bismuth telluride and its alloys are unique materials. They are an excellent thermoelectric material, and they are as important to the thermoelectric industry – for cooling and energy generation applications – as silicon is important to the electronic industry. Bismuth telluride powders are widely used as materials for thermoelectric refrigeration. They are also the best materials for use in thermoelectric generators when the temperature of the heat source is moderate.

Quick Facts

Product	: Bismuth Telluride Powder
Color	: Gray Powder
Stock No	: NS6130-12-000436
CAS	: 1304-82-1
Purity	: >99.9%
APS	: 60-70 μm
Other Metal	: 850ppm



Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
Bi_2Te_3	800.76 g/mol	7.74g/cm $_3$	586°C

Applications

- Power generation or cooling applications
- Topological insulators.
- Used as materials for thermoelectric refrigeration

ISO 9001:2015
CERTIFIED COMPANY



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