

Terbium

Oxide Powder



NS6130-12-000273

APS
1-2 μ m



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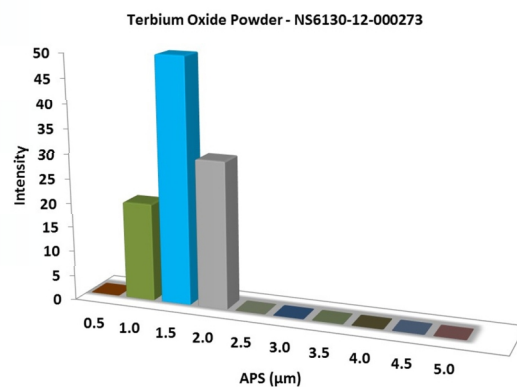
Terbium Oxide Powder

Terbium oxide is used to dope calcium fluoride, calcium tungstate and strontium molybdate, materials that are used in solid-state devices, and as a crystal stabilizer of fuel cells which operate at elevated temperatures. As a component of Terfenol-D (an alloy that expands and contracts when exposed to magnetic fields more than any other alloy), terbium is of use in actuators, in naval sonar systems and in sensors.

Most of the world's terbium supply is used in green phosphors. Terbium oxide is in fluorescent lamps and television and monitor cathode ray tubes (CRTs). Terbium green phosphors are combined with divalent europium blue phosphors and trivalent europium red phosphors to provide trichromatic lighting technology, a high-efficiency white light used for standard illumination in indoor lighting.

Quick Facts

Product	:	Terbium Oxide Powder
Stock No	:	NS6130-12-000273
CAS	:	12037-01-3
Purity	:	99%
Color	:	Brown
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight	Melting Point
Tb ₄ O ₇	1-2µm	747.69 g/mol	2,410 °C

Chemical Composition

Product	Weight Percent (nominal)	
	Tb ₄ O ₇	Other Metal
Terbium Oxide Powder	99%	0.1%

Applications

- Used in the preparation of other terbium compounds due to its stability
- As an activation agent for fluorescent powders
- Catalytic automobile exhaust converters
- As magneto-optical recording devices and magneto-optical glasses
- Optical and laser-based devices.

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