

# Dysprosium Oxide Powder



NS6130-12-001060

APS  
40-60 $\mu$ m



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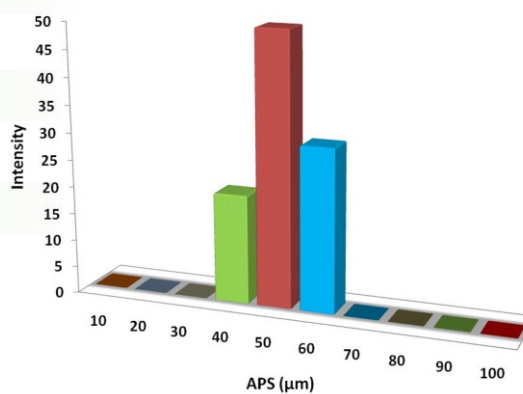
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# Dysprosium Oxide Powder

Dysprosium-oxide-nickel cermets have been proven to have a high thermal-neutron absorption cross-section. Dysprosium Oxide, is the main raw materials for Dysprosium Metal which is widely used in Neodymium-Iron-Boron magnets, also have specialized uses in ceramics, glass, phosphors, lasers and Dysprosium Metal halide lamp. High purity of Dysprosium Oxide is used in electronics industry as an antireflection coating in photoelectric devices. There are several properties of dysprosium oxide which they can impart onto materials when used as an additive, dopant, or base ingredient. Materials include glass for optical devices and fluorescent materials. The unique properties of  $Dy_2O_3$  make it of use in various luminescent and fluorescent applications, including material doping and various others.

## Quick Facts

Product	:	Dysprosium Oxide Powder
Stock No	:	NS6130-12-001060
CAS	:	1308-87-8
Purity	:	99%
Color	:	White
Form	:	Powder



## Technical Specification

Formula	APS	Molecular Weight	Melting Point
$Dy_2O_3$	40-60μm	373.99g/mol	2408 °C

## Chemical Composition

Product	Weight Percent (nominal)	
	$Dy_2O_3$	Other Metal
Dysprosium Oxide Powder	99%	0.1%

## Applications

- Electrical industry
- Fluorescent applications
- Photoelectric devices

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