NANOSHEL

Yttrium

Oxide Powder

NS6130-05-594

APS
40-50µm

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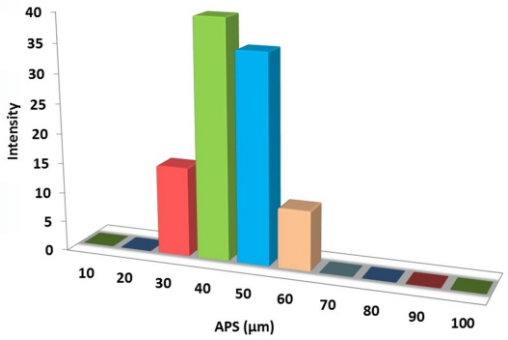
Yttrium Oxide Powder

Yttrium oxide because of its properties may also be used as a laminated insulator. Y2O3 is the most thermodynamically stable compound in the oxide group. It is resistant to many reactive molten metals such as titanium or uranium. In its industrial application as a pure ceramic, yttrium oxide is still a relatively new material.

Yttrium oxide is suitable for use in many special applications such as refractory field. In the refractory field, the application range includes use as a compound for applications that require stability at high temperatures. For example, they can be made for graphite in nuclear technology as coating material. Because yttrium oxide forms a solid solution with uranium oxide, it is also employed as a diluting agent of uranium oxide for nuclear fuel rods.

Quick Facts

Product	:	Yttrium Oxide Powder
Stock No	:	NS6130-05-594
CAS	:	1314-36-9
Purity	:	99%
Color	:	White
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight	Melting Point
Y_2O_3	40-50µm	225.81g/mol	2440 °C

Chemical Composition

Product	Weight Percent (nominal)	
	Y_2O_3	Other Metal
Yttrium Oxide Powder	99%	0.1%

Applications

- IR And UV Translucent Glass
- Insulators
- Glass
- Electrical Conducting Ceramics
- Refractories And Stains
- Optical Coatings

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