NANOSHEL

Zirconium

Oxide Powder

NS6130-05-518

APS
40-50µm

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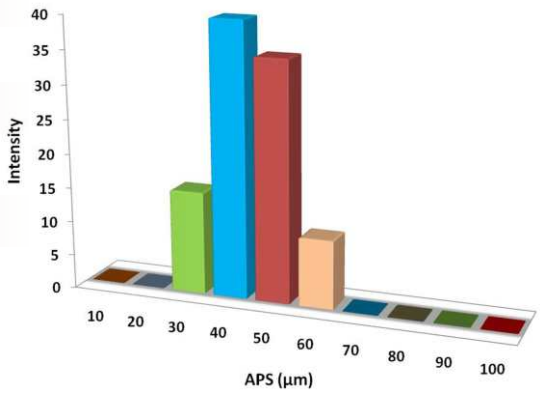
Zirconium Oxide Powder

Zirconium oxide is an inorganic non-metal material that belongs to the group of oxide ceramics. It achieves excellent properties and stabilized with Y2O3, for instance, the utmost general strength and impact strength. In the process, it is decisive that Y2O3 is processed evenly in the ZiO2 matrix.

This oxide has a high refractive index and also shows very good transparency on a broad spectral field, great chemical stability and a threshold resistance to high laser flow. Because of these properties, zirconium oxide has miscellaneous applications, for example, optical fibers, laser mirrors or barrier layers from the heat. Zirconium oxide films are utilized a plug layer for semiconducting ceramics like biomaterial for prostheses, like gas sensors or components in combustible batteries.

Quick Facts

Product	:	Zirconium Oxide Powder
Stock No	:	NS6130-05-518
CAS	:	1314-23-4
Purity	:	>99.9%
Color	:	White
Form	:	Powder



Technical Specification

Formula	APS	Boiling Point	Melting Point
ZrO_2	40-50µm	4,300 °C	2,715 °C

Chemical Composition

Product	Weight Percent (nominal)	
	ZrO_2	Other Metal
Zirconium Oxide Powder	>99.9%	0.1%

Applications

- Abrasive products
- Dental bridges and crowns
- Additive in paints and lacquers
- In fuel cell membranes and in joint implant

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