

# ZIRCONIUM OXIDE NANOPOWDER

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99.9%  
Purity

80nm  
APS

ZrO<sub>2</sub>



f @ X in

NS6130-03-363

ZrO<sub>2</sub>, or zirconia, is a pivotal material, boasting fine natural color, high stability, toughness, and chemical strength. With abundant oxygen vacancies, it behaves as a P-type semiconductor, crucial for catalytic processes due to its high ion exchange ability. ZrO<sub>2</sub>'s potential as an insulator in transistors for nanoelectronic devices is under scrutiny, given its polymorphic nature and crystal structures: monoclinic, tetragonal, and cubic.

## QUICK FACTS

CAS : 1314-23-4  
Purity : 99.9%  
APS : 80nm  
Color : White  
Form : Powder

## TECHNICAL SPECIFICATION

Molecular Formula : ZrO<sub>2</sub>  
Molecular Weight : 123.218 g/mol  
Density : 5.68 g/cm<sup>3</sup>  
Melting Point : 2700 °C

## APPLICATIONS

- Ceramics Industry
- Artificial jewellery
- insulating and fire-retarding materials
- Optical storage
- Energy storage Fuel, Battery



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015  
CERTIFIED COMPANY

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