

ZIRCONIUM OXIDE NANOPOWDER

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f @ X in

99.9%
Purity

20nm
APS

ZrO₂

NS6130-03-369

ZrO₂, 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. ZrO₂'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 : 20nm
Color : White
Form : Powder

TECHNICAL SPECIFICATION

Molecular Formula : ZrO₂
Molecular Weight : 123.218 g/mol
Density : 5.68 g/cm³
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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