



Zirconium Oxide Dispersion

Zirconium Oxide Nanoparticle Dispersion is a material of excellent technological significance and it is a white crystalline oxide of zirconium. It has various properties such as fine natural color, high stability, high toughness, high chemical strength, desirable corrosion, chemical, and microbial resistance. ZrO₂ manifests plenty of oxygen vacancies on its surface with wideband gap and it is called as P-type semiconductor.

Quick Facts

Purity	: 99.9 %
APS	: 45-55nm
Concentration	: Customer requirement
Dispersing Agent	: Organic Solvent (DMF), IPA, Ethanol, Water (ddH ₂ O)
Form	: Slurry, Suspension, Dispersion, Colloidal

Properties

- ✓ Photo-catalytic
- ✓ Chemical inertness
- ✓ Excellent thermal stability
- ✓ High hardness
- ✓ Excellent optical

Applications

- ✓ Industrial coating materials for optical films
- ✓ Usually have hydrophobic surface properties
- ✓ Medical devices, chemicals and coatings
- ✓ High-temperature and corrosion resisting components
- ✓ Piezoelectric element, ion exchange, solid dielectric
- ✓ Abrasive material, insulating material
- ✓ Fire-retarding material



Designed by : NANOSHEL LLC



ISO 9001:2015
CERTIFIED COMPANY

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