

ZnO

# NANO Zinc Oxide Dispersion

**Zinc Oxide Dispersion** shows good antibacterial, anti-corrosive, antifungal and UV filtering properties. Zinc oxide (ZnO) dispersions are a versatile material which find applications in sunscreens, sun blocks, paint, preservation, piezoelectric thin films, thin film waveguides, etc. Zinc oxide's electronic band structure allows the material to block or absorb harmful UV radiation. ZnO can thus find potential applications as a transparent electro-optic substrate.

## Quick Facts

|                  |  |
|------------------|--|
| Purity           | : 99.9 %   |
| APS              | : 50-80nm  |
| Concentration    | : Customer requirement                               |
| Dispersing Agent | : Organic Solvent (DMF), IPA, Ethanol, Water (ddH2O) |
| Form             | : Slurry, Suspension, Dispersion, Colloidal          |

## Properties

- ✓ High chemical stability
- ✓ Antibacterial
- ✓ Photocatalytic and photo oxidizing
- ✓ Increases surface hardness,
- ✓ Improves UV light resistance and antiseptic effect
- ✓ UV filtering, and photovoltaic

## Applications

- ✓ Pharmaceutical and biomedical
- ✓ Including sunscreens
- ✓ Biosensors, food additives
- ✓ Pigments
- ✓ Rubber manufacture
- ✓ Cancer cell imaging
- ✓ Agriculture industry
- ✓ Renewable energy, water treatment



Designed by : NANOSHEL LLC



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