



# TITANIUM

NANOPARTICLES

## DISPERSION

**Titanium** is one of the most abundant compounds on our planet and a very appealing material for a variety of applications. Unique physical and chemical characteristics combined with earth abundance and nontoxicity, as well as high thermal and chemical stability, makes it one of the most employed materials in pigments, UV sunscreens, cosmetics, medical implants, and sensors. TiO<sub>2</sub> dispersion pigments, nanoscale titanium dioxides are used as food packaging.

### Applications

- ✓ Orthopedic medical devices
- ✓ Injection molding
- ✓ UV radiation resistance
- ✓ Implant manufacturing, drug delivery
- ✓ Bioimaging, and other medical science
- ✓ High temperature coating
- ✓ Rocket engine
- ✓ High temperature lubricity

### Properties

- ✓ Homogeneous microstructure
- ✓ Excellent consistency
- ✓ High specific strength
- ✓ Lightweight
- ✓ Corrosion resistant
- ✓ Low electrical and thermal conductivity

### Quick Facts

Purity	: 99.99 %
APS	: 80-100nm
Concentration	: Customer requirement
Dispersing Agent	: Organic Solvent (DMF), IPA, Ethanol, Water (ddH <sub>2</sub> O)
Form	: Slurry, Suspension, Dispersion, Colloidal

METAL Nano Dispersion

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