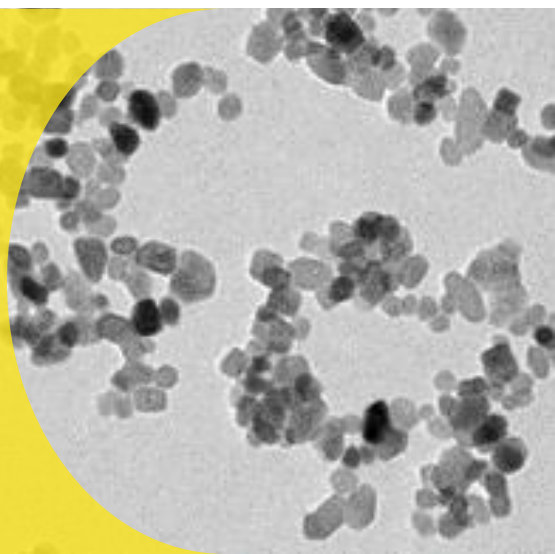




TiO₂

Titania datasheet



Our offer

We offer anatase and rutile TiO₂ nanoparticles dispersed in various media to be used in a wide range of applications. Our nanoparticles can be used as nanofillers in composite materials, for example in high refractive index transparent composites. They can also be employed as opacifiers to provide whiteness and opacity to dental or coating materials, or as catalysts.

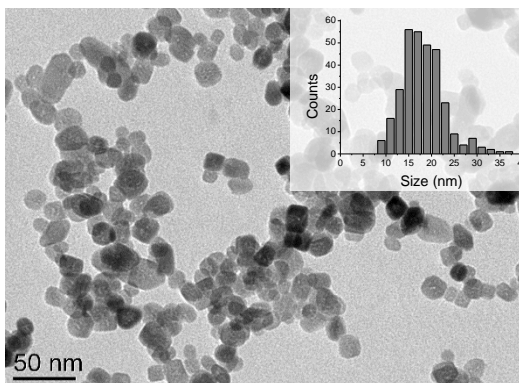
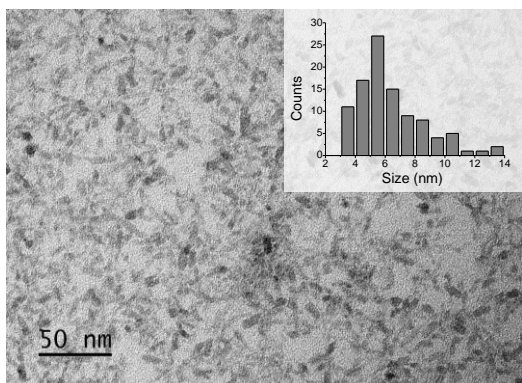
Main benefits

- Sharp particle size distribution
- High refractive index material
- Tailor-made functionalization
- Absence of agglomerates

Main properties

Chemical formula	TiO ₂
Crystal structure	Anatase or rutile
Morphology	Nearly spherical or elongated
Average particle size	5 nm or 20 nm
Density (theoretical)	4.23 g/cm ³ (rutile)
Refractive index (theoretical)	2.6 (rutile)
Dispersion solid content	Up to 50% depending on dispersion medium
Dispersion medium	Depending on the nanoparticle grade: water, MEK, selected organic solvents, methacrylates, acrylates (under development)
Type of functionalization	Depends on dispersion medium and application requirements

Examples of size distribution and particle morphology



Samples (up to 50 g of dry matter) and Safety Data Sheets are available.