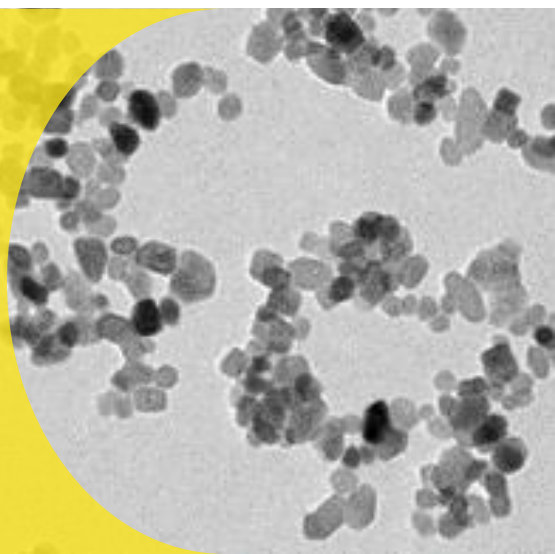




TiO₂

Titania datasheet



Our offer

We offer titania 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 in dental or coating applications, or as catalysts.

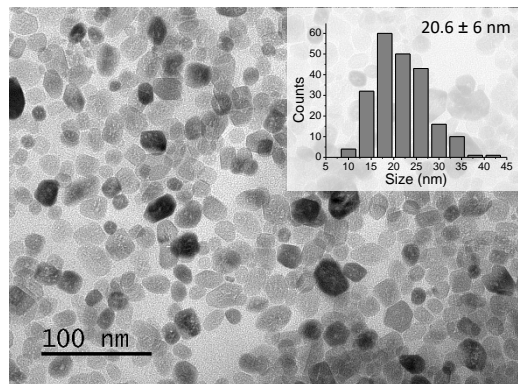
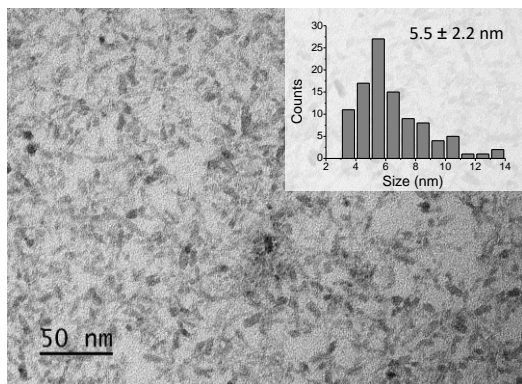
Main benefits

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

Main properties

Chemical formula	TiO ₂
Crystal structure	Anatase
Morphology	Nearly spherical or elongated
Average particle size	5 nm or 20 nm
Density (theoretical)	3.8 g/cm ³
Refractive index (theoretical)	2.5
Dispersion solid content	Up to 50% depending on dispersion medium
Dispersion medium	Depending on the nanoparticle grade: water, MEK, selected organic solvents, methacrylate-based dental resins, acrylates (under development)
Type of functionalization	Depends on dispersion medium and application requirements

Size distribution and particle morphology



Samples (up to 20 g of dry matter depending on the nanoparticle grade) and Safety Data Sheet are available.