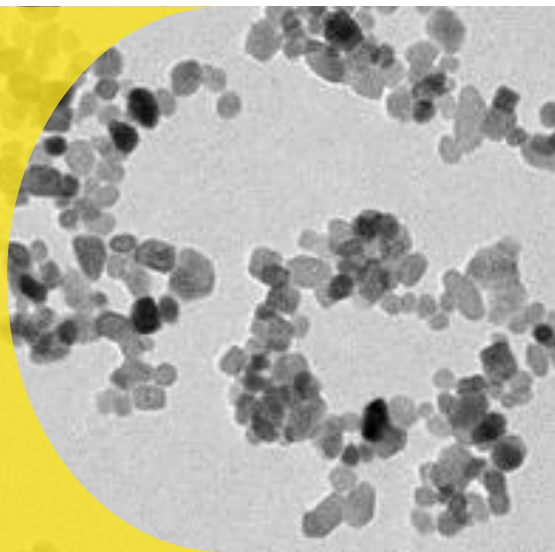
MATHYM

INNOVATIVE NANOMATERIALS

TiO_2



Titania datasheet

MATHYM
INNOVATIVE NANOMATERIALS

TiO_2 – Titania nanoparticles in suspension

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 composites. They are compatible with a large variety of acrylate monomers.

They can also be used as catalyst or as opacifier to provide whiteness and opacity in dental or coating applications.

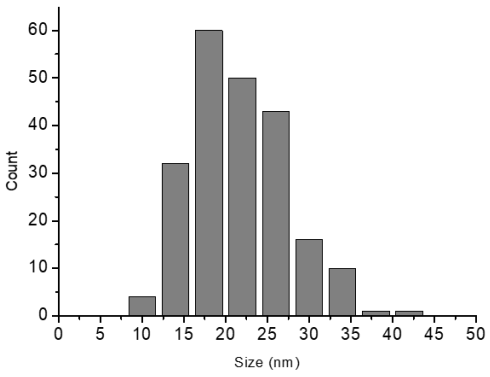
Main benefits

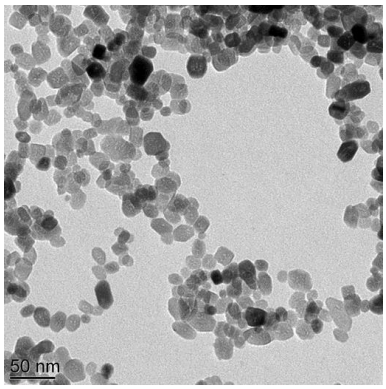
- Sharp size distribution
- High refractive index material
- Tailor made functionalization
- Absence of agglomerates

Main properties

Chemical formula	TiO_2
Crystal structure	Anatase - *tetragonal*
Morphology	Nearly spherical
Average particle size	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	Water, acetone, 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) and Safety Data Sheet are available.

Provided data are typical values, they are not contractual.

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