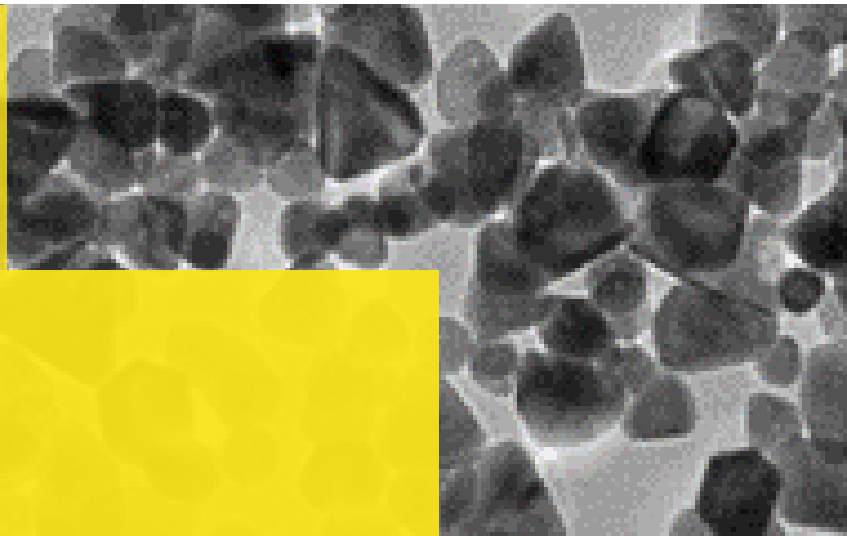
MATHYM

INNOVATIVE NANOMATERIALS

ZnO



Zinc oxide datasheet

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ZnO - Zinc oxide nanoparticles in suspension

Our offer

We offer ZnO nanoparticles dispersed in a variety of solvents and resins where they form stable dispersions. They can be used as starting materials for coatings, as nanofillers in different composite materials or 3D printing feedstocks. They can be beneficial as antimicrobial and antifungal agents, and can also contribute to UV resistance and corrosion resistance. They also exhibit photocatalytic activity.

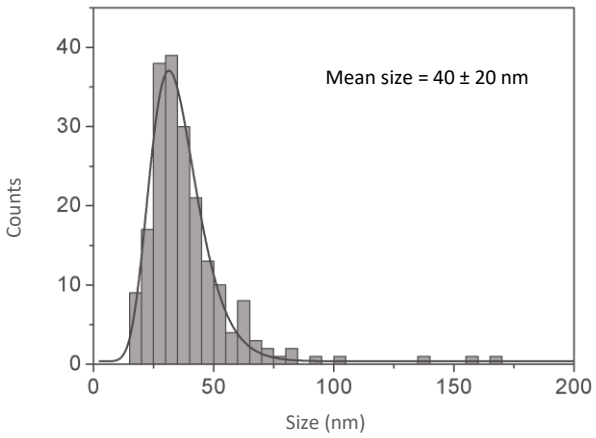
Main benefits

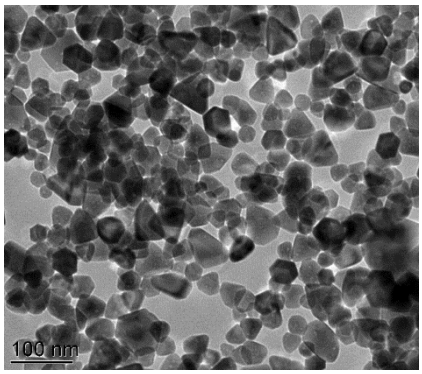
- Narrow particle size distribution

Main properties

Chemical formula	ZnO
Crystal structure	Wurtzite
Morphology	Multiple shapes
Average particle size	40 - 60 nm
Density (theoretical)	5.6 g/cm^3
Refractive index (theoretical)	2.0
Dispersion solid content	Up to 30 wt.% depending on dispersion medium
Dispersion medium	Water, acetone, methacrylate-based dental resin
Type of functionalization	Depends on dispersion medium and application requirements

Size distribution





Available sample size : 5 g to 15 g of dry matter

Provided data are typical values, they are not contractual

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Mathym SAS
22, rue des Aulnes
F69410 – Champagne-Au-Mont-D'Or

info@mathym.com
Phone: +33 4 78 83 72 93
www.mathym.com

Baikowski