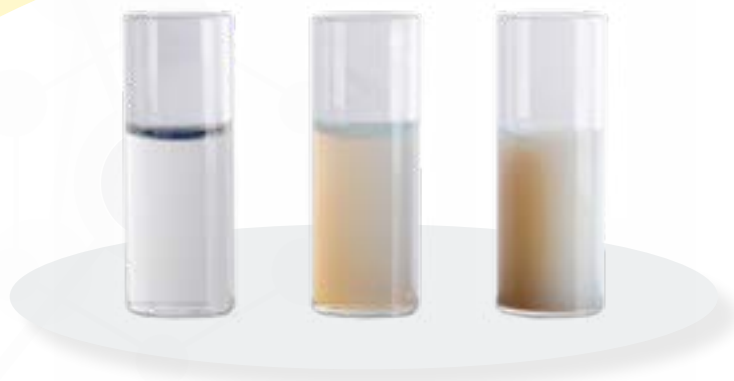


Nanoparticle Dispersions



Mathym develops and manufactures
ultra-small fluoride & oxide nanomaterial dispersions

- Narrow particle size distributions
- High crystallinity particles
- Agglomerate-free dispersions
- Stable and homogeneous dispersions in water, solvents, monomers

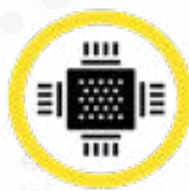
Main applications



Dental



Solid-state lighting



Semiconductor



Optics / Photonics



3D printing



Biomedical



Energy



Fine ceramics

Mathym® SAS

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Sales Agent in China

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Baikowski® Korea Co, Ltd.

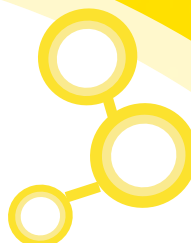
Korea | Seoul

Baikowski® Japan Co, Ltd.

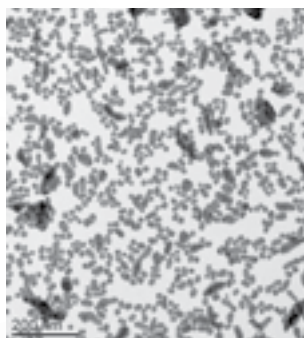
Japan | Chiba

Commercial products

Nano-ytterbium fluoride



filyxio
MATHYM



Brings radiopacity to dental materials while maximizing depth of cure and aesthetics

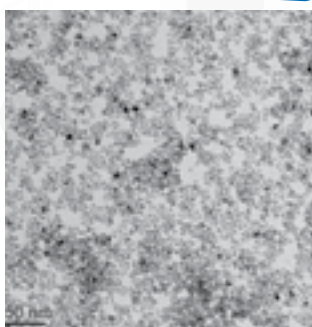
- Smallest YbF₃ nanoparticles on the market: 20 nm
- Compatibility with all dental monomers
- High translucency of dental composites
- Low viscosity at high particle loading
- Improved flexural strength



[Learn more](#)

Nano-zirconia

zilight
MATHYM



Our smallest nano-zirconia grade is as small as 5 nm

- Refractive index modulation in transparent materials
- Increased scratch and wear resistances
- Low sintering temperature ceramics
- Solid Oxide Cells
- Ceramic membranes
- Lubricant oils



[Learn more](#)

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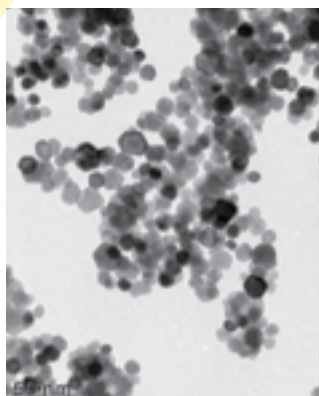
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R&D Products

Nano-cerium oxide



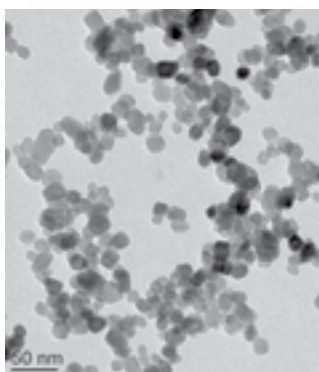
Mathym offers ceria nanodispersions as R&D samples

- Sizes: 7-14-20 nm
- Undoped & doped grades, e.g., 10GDC
- Dispersed in water, ethanol, other media under development
- Applications include polishing/CMP abrasive, Solid Oxide Cells



[Learn more](#)

Nano-titanium oxide



Titanium oxide nanoparticles are available as R&D samples

- Sizes: 6-20 nm
- Highly crystalline anatase and rutile
- Dispersed in water, alcohols, other media under development
- Applications include high refractive index nanofiller



[Download datasheet](#)

**10+ nanomaterials under development
& custom products**

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