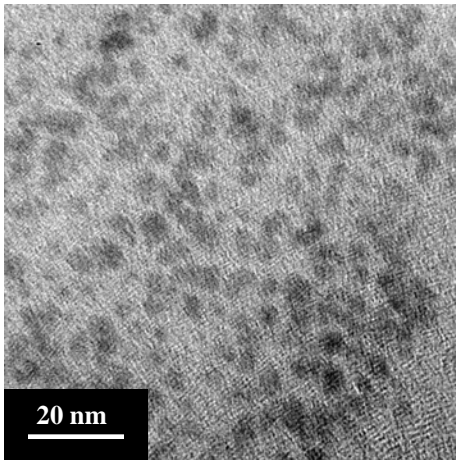


Small crystallite size

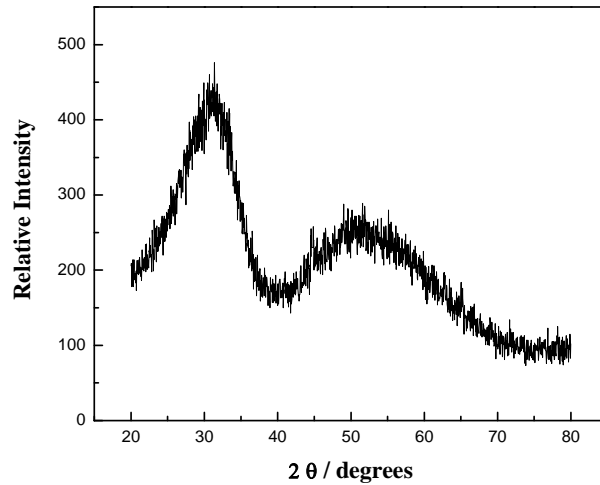
Narrow size distribution

High surface area

Zirconium (IV) Oxide (8 mol% yttria stabilized)*



TEM micrograph of 8Y-ZrO₂ powder showing small particle size and narrow distribution.



XRD pattern of 8Y-ZrO₂ powder showing broad peaks indicative of fine crystallite size.

Typical Properties

Crystal Phase	Fluorite (Cubic)
Avg. Crystallite Size (From XRD)	3 nm
Avg. Particle Size (From Surface Area).....	5 nm
Specific Surface Area	200 m ² / g
Color	White
True Density	5.90 g / cm ³
Purity.....	99.9 %

Typical Applications

- Dental filling and prosthetic devices
- Nano-porous membranes for filtration
- Particulate reinforcements for composites
- Catalyst support

* Zirconium (IV) Oxide stabilized with 3, 4 and 10 mol % yttria are also available.

Available in quantities of 100, 250, & 500 grams. Pricing information is available on our website.