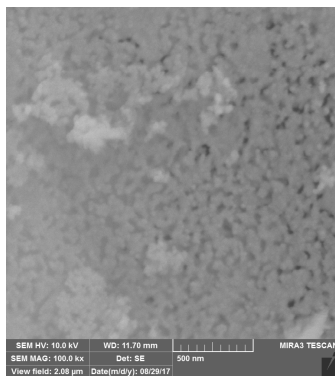


Yttrium Oxide Nano Particles

Yttrium(III) oxide, also known as yttria, It is an air-stable, white solid substance.



Particle Size (d₅₀)	< 80 nm
Granularity	< 300 nm
Specific Surface Area (BET)	> 25 m ² /g
Purity	99.99% min.

Formula	Y ₂ O ₃
CAS No.	1314-36-9
EC No.	215-233-5
Molecular Weight	255.81
Density	5.01 g/cm ³
Melting Point	4,397°F (2,425°C)
Boiling Point	7,772°F (4,300°C)
Appearance	White powder

Typical Application

- * Sintering aid for SiC, Si₃N₄ and AlN
- * Stabilizer for zirconia - e.g. YSZ coating (TBCs); YSZ electrolytes for solid oxide fuel cells (SOFC)
- * Catalyst carrier
- * Luminescent materials (phosphors)
- * Constituent of high-temperature superalloys and ODS materials
- * Metallurgical and Electronic materials

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Metals & Alloys
Full Range of Salts
Composites
Polishing Powder
Special Particle Size

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