

## Yttrium Oxide

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



**Yttrium Oxide**  
CAS No. 1314-36-9

<b>Particle Size (d<sub>50</sub>)</b>	< 1 μm, < 5 μm, 16 - 63 μm (granules) or customized
<b>Purity</b>	99.99% min.

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

### Typical Application

- \* Sintering aid for SiC, Si<sub>3</sub>N<sub>4</sub> and AlN
- \* Stabilizer for zirconia - e.g. YSZ coating (TBCs); YSZ electrolytes for solid oxide fuel cells (SOFC)
- \* Thermal Spray Coating, Mold Coating for a Titanium Alloy Casting.
- \* Catalyst carrier
- \* Luminescent materials (phosphors)
- \* Constituent of high-temperature superalloys and ODS materials
- \* Metallurgical and Electronic materials

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