

Data Sheet

Nilcra[®] Zirconia 8Y Grade

Description

- Yttria – Stabilised Zirconia (Y-SZ).
- Comprising 5 mol% (8.5 wt%) Y_2O_3 in ZrO_2 .
- Coarse grain (4 micron) cubic zirconia.

Prime Features:

- Very high oxygen diffusivity above 500°C

Specifications

- Quality Assurance to ISO 9001

Physical Properties

Colour		White
Density g/cm^3	20°C	6.05
Modulus of Elasticity GPa	20°C	200

Typical Applications:

- Typically used for applications requiring high temperature oxygen diffusivity/electrical conductivity.
- Oxygen Sensors
- Fuel Cells
- Furnace Heating Elements – Muffle Tubes for production of Optical Fibre

Production Capabilities

- Sintered components
- Precision ground components
- Ceramic / Metal assemblies
- Ceramic design assistance
- Prototyping, batch and volume production

Please note that all values quoted are based on test pieces and may vary according to component design. These values are not guaranteed in anyway whatsoever and should only be treated as indicative and for guidance only.