

ZIRCONIUM OXIDE

COARSE YTTRIA DOPED GRADE - XZO1076/03

CAS NUMBER 1314-23-4



GENERAL CHARACTERISTICS

MEL Chemicals zirconium oxides are dense, white powders of high chemical purity, which are manufactured by the calcination of chemically precipitated intermediates.

APPLICATIONS

MEL Chemicals have developed a new coarse yttria doped zirconium oxide. XZO1076 has been designed to give the anode of solid oxide fuel cell systems a porous microstructure when fired. XZO1076/03 can also be plasma sprayed.

HEALTH & SAFETY

Material Safety Data Sheets are available on request.

TYPICAL PROPERTIES

Grade	Y ₂ O ₃ (%)	SiO ₂ (%)	TiO ₂ (%)	Fe ₂ O ₃ (%)	Average particle size (µm)	Surface area (m ² g ⁻¹)
XZO1076/03	16	0.01	0.01	0.005	12	0.5

FEATURES

- Ceramics manufactured from our powder are white in colour.
- The powder is of high chemical purity.
- The chemical route used to manufacture the powder results in a homogeneous stabiliser distribution.
- Yttria content, particle size and surface area can be adapted to suit specific requirements.

MEL Chemicals is happy to discuss the product needs of individual clients.



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