

High Purity Monoclinic Zirconias

Luxfer MEL Technologies high monoclinic zirconias are high performance, high purity zirconium oxides suitable for use in a variety of applications where a high level of control of chemical and physical properties is needed.

Luxfer MEL Technologies high monoclinic zirconias are manufactured in the UK by a precisely controlled chemical precipitation process that ensures consistency of both purity and performance.

Features

Two grades, E101 and GL10, with different average particle sizes, surface areas and levels of purity.

Applications

Depending on the specific requirements of particle size, surface area and purity, monoclinic zirconias are commonly used in:

- Radiopacifiers for surgical cements
- High performance technical ceramics
- Electronic applications such as PZT
- Oxygen sensors
- Thermal barrier coatings
- Optical glass

Chemical composition (typical values)

Table 1.

Grade	SiO ₂ (wt. %)	TiO ₂ (wt. %)	Fe ₂ O ₃ (wt. %)
E101	0.01	0.01	0.005
GL10	0.01	0.01	0.001

Physical properties (typical values)

Table 2.

Grade	Average particle size (µm)	Average surface area (m ² .g ⁻¹)
E101	0.7	22
GL10	20	1

Packaging

Standard packaging is 50 kg packed into poly-lined fiber-board drums.

Safety data sheet

Regional SDS information is available on request.

Discover more at

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