



## High Purity Monoclinic Zirconias

Luxfer MEL Technologies high purity 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 purity 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:

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

### Chemical composition (typical values)

Grade	TiO <sub>2</sub> (wt%)	SiO <sub>2</sub> (wt%)	Fe <sub>2</sub> O <sub>3</sub> (wt%)
E101	0.01	0.01	0.005
GL10	0.01	0.01	0.001

### Physical properties (typical values)

Grade	Average particle size (µm)	Average surface area (m <sup>2</sup> .g <sup>-1</sup> )
E101	0.8	22
GL10	20	1

### Packaging

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

### Safety data sheet

Regional SDS information is available on request.

Discover more at

[www.luxfermeltechnologies.com](http://www.luxfermeltechnologies.com)

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† The information contained within is meant as a guideline only

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