



Monoclinic Zirconias for Electrical and Electronic Applications

Luxfer MEL Technologies monoclinic zirconias

are high performance, high purity zirconium oxides suitable for use in a variety of electrical and electronic applications where a high level of control of chemical and physical properties is needed.

Luxfer MEL Technologies monoclinic zirconias

are manufactured in the UK by a precisely controlled chemical precipitation process that ensures consistency of both purity and performance.

Features

A range of grades with different average particle sizes, surface areas and levels of purity.

E101 is the highest purity.

Applications

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

- High performance electroceramics
- PZT
- Oxygen sensors
- MLCC

Discover more at

www.luxfermeltechnologies.com

Chemical composition (typical values)

Grade	TiO ₂ (wt%)	SiO ₂ (wt%)	Fe ₂ O ₃ (wt%)
E15	0.15	0.12	0.01
E20	0.15	0.12	0.01
E30	0.15	0.12	0.01
E101	0.01	0.01	0.005

Physical properties (typical values)

Grade	Average particle size (µm)	Average surface area (m ² .g ⁻¹)
E15	0.6	5
E20	1.5	4
E30	16	5
E101	0.8	22

Packaging

Standard packaging is 100 kg packed into poly-lined fibre-board drums for E15, 20 and 30. 50 kg packed into poly-lined fibre-board drums for E101.

Safety data sheet

Regional SDS information is available on request.

† The information contained within is meant as a guideline only

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