

MElox RMZ Series – Zirconium Oxide

Luxfer MEL Technologies RMZ grades 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 RMZ grades 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 and surface areas.

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
- Glass additive
- Ceramic pigments
- Refractories and insulation
- Abrasives and polishing

Chemical composition (typical values)

Table 1.

Grade	SiO ₂ (wt. %)	TiO ₂ (wt. %)	Fe ₂ O ₃ (wt. %)
All grades	0.02	0.02	0.01

Physical properties (typical values)

Table 2.

Grade	Average particle size (µm)	Average surface area (m ² .g ⁻¹)
MElox RMZ	16	3.0–5.0
MElox RMZ15	0.5	5.5
Other grades available by request	0.6–1.5	3.5–5.0

Packaging

Standard packaging is 100 kg packed into poly-lined fiber-board drums or 1000 kg bulk bags.

Safety data sheet

Regional SDS information is available on request.

Discover more at

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