



A Grain Zirconia

Zircoa A-grain (zirconium oxide, ZrO_2 , or zirconia) is synthesized from zircon sand ($ZrO_2 \cdot SiO_2$) using a solid-state reaction process. The Zircoa A Grain process yields a consistently high purity zirconia composed of monoclinic phase particles. Mean particle size is 2.1 microns by Microtrac analysis. Surface area is $1 \text{ m}^2/\text{g}$ by BET analysis method. Application of A Grain in manufacturing of products is straightforward because of its low surface area and unique spheroid shaped particles.

Some Applications Include:

- Ceramic Color
- Opacifiers
- Refractories
- Catalysts
- Sensors
- High Temperature Insulation
- Electronic Ceramics
- Wear Resistant Products
- Zirconium Metal Production
- High Temperature Filler

Typical Chemical Analysis (Wt.%)

ZrO_2^*	SiO_2	CaO	MgO	Fe_2O_3	Al_2O_3	TiO_2
99.6	≤ 0.3	0.2	< 0.1	< 0.1	< 0.1	< 0.1

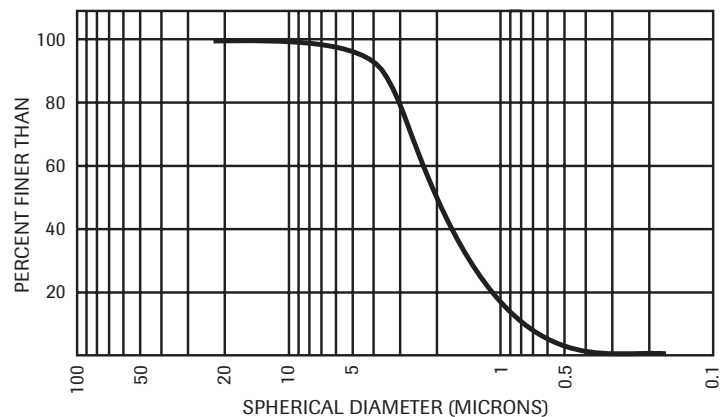
Other grades can be formulated to satisfy special requirements.

Typical Lot Size 12,000 lb.

Standard Packaging 500 lb. recycled steel drums with plastic bag liners

* Includes naturally occurring HfO_2 2.5% maximum

Typical Particle Size Distribution



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