



## 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	$\leq 0.3$	0.2	$< 0.1$	$< 0.1$	$< 0.1$	$< 0.1$

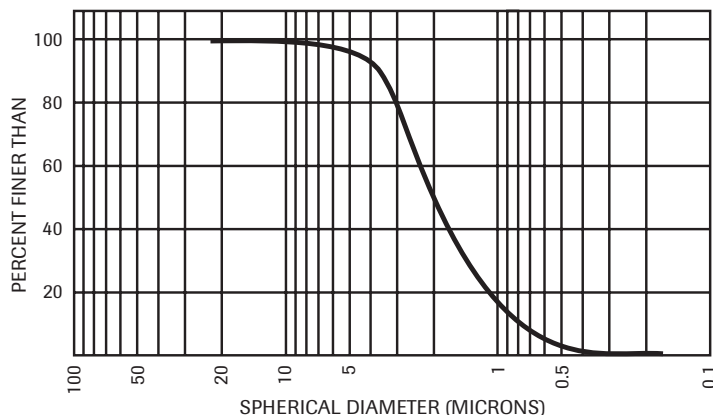
Other grades can be formulated to satisfy special requirements.

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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