360 MATERIALS
Because Every Degree Counts

Ceramic Hollow Spheres
1800C and 2200C



Ceramic hollow spheres are bulk fill insulations which flow easily into complex and confined spaces to provide organic free, inert thermal insulation for glass melting, ceramic sintering and crystal growth operations. Our sintered zirconia hollow spheres offer refractory performance for furnaces operating up to 2200C in oxidizing atmospheres. Our 99% pure alpha alumina hollow spheres are made from the high purity Bayer process and are rated for use up to 1800C. These organic free materials will not smoke or outgas upon heating.

TECHNICAL BENEFITS

- Excellent thermal shock resistance
- Organic free, no smoke or outgas
- Dust Free
- Melting points above 2000C
- Low mass for low heat storage

OPERATIONAL BENEFITS

- Economical
- Inert
- High temperature stability

P.O. Box 317, Chester, NY 10918 www.360mtls.com 845-645-3635 sales@360mtls.com

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Cearmic Hollow Spheres 1800C and 2200C

Material Properties & Characteristics

Grade	1800C	2200C
Nominal Composition (wt%)		
Alumina	99 min	0.8 max
Zirconia	-	95
Calcia	-	3.8
Silica	0.6	0.4
Trace Elements	<0.2	<0.5
Organics	0	0
Melting Point (deg C)	2000	2550
Maximum Use Temperature (deg C)	1800	2200
Bulk Denisty (pcf)	47.5	95
Thermal Conductivity (Wm/K)		
At 20C	0.57	
At 1200C	4.2	

TECHNICAL SUPPORT

Drawing upon 30 years experience in ceramics and thermal processing, 360 Materials supplies material solutions for all atmospheres up to 2400C.

IN STOCK INVENTORY

Call us at (845) 645-3635

CUSTOM SIZING

Custom sieved narrower distribution available upon request.

For more information on any of our products or services please contact us at: (845) 645 – 3635 or sales@360mtls.com

Standard Sizes

- Item ACS001 – Alumina Ceramic Spheres, 50 lb bag
- Item ZCS001 – Zirconia Ceramic Spheres, 55 lb bag