



Zircar Zirconia, Inc.
 "Manufacturer of the original ZIRCAR products" ©

ZIRCONIA HOLLOW BALLS TYPE ZHB

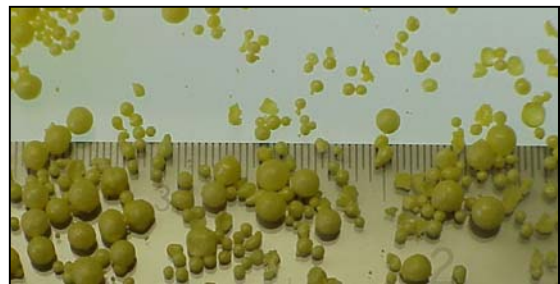
Zirconia Hollow Balls Type **ZHB** are sintered calcia-stabilized zirconia hollow balls, which flow easily into a confined space. Our standard product is our Type **ZHB-1** which ranges in particle size from 0.2 mm to 3.0 mm diameter, which fill space effectively. They are useful for high temperature insulation in spaces where the insulation must be poured into place. The different size balls tend to segregate when poured as the larger balls tend to 'float' on top of the smaller balls. To minimize this effect, pour all the balls in at one time.

PROPERTIES & CHARACTERISTICS

Color	Yellow
True Density, g/cc	5.6
Crystal Structure	80% Cubic, 20% Monoclinic
Bulk Density, g/cc	1.5
Angle of Repose	30°
Composition, Wt%	
ZrO ₂ *	93 Minimum
CaO	3-4
SiO ₂	0.60 Maximum
Fe ₂ O ₃	0.10 Maximum
TiO ₂	0.30 Maximum
Al ₂ O ₃	0.80 Maximum



ZHB-1 flows freely to a low 30° angle of repose



ZHB-1 consists of various size hollow balls. The scale is divided into 0.5mm increments.

*1 - 2 wt% hafnia occurs naturally with zirconia and does not affect performance.

APPLICATION INFORMATION

Zirconia Hollow Balls Type **ZHB** are useful as heat exchange media in fluidized bed reactors and as insulation in constrained spaces in very high temperature applications. The melting point of **ZHB** exceeds 4000° F. ZHB can be sieved into a more narrow size distribution on request. Please contact us for details

ORDERING INFORMATION

ZHB-1 is available in 1, 5, and 25KG packages.

Package Size	Item Number
1 KG	BC002
5 KG	BC003
25 KG	BC004

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