

DZSP Dense Zirconia Setter Plates

**The Unrivaled Industry Leader
of ZrO₂ Insulation**

Product Shapes

- Stackable Trays
- Railed Setter
- Flat Plates

DZSP Features

- Extreme Refractoriness
- Phase Stabilized with Calcia
- 100% Inorganic - No Binders
- Chemically Compatible with Many Materials
- Usable in Multiple Atmospheres

The Zircar Fibrous Ceramics Advantage

Low Mass,
Low Heat Storage &
Low Thermoconductivity
means
High Thermal Shock Resistance,
High Insulation Performance,
Higher System Efficiency &
Lower Energy Costs



Dense... Dust Free... Stabilized Zirconia...

Plates and trays are available for applications to 1650 °C.

Product Information

Zircar Dense Zirconia Setter Plates Type DZSP are hard, rigid, dry pressed and high fired structures. DZSP zirconia setter plates are excellent kiln furniture for firing PZT piezoelectric parts and other electro-ceramics, such as barium titanate (BaTiO₃) capacitors. DZSP is dimensionally stable to 1650 °C. They are composed of zirconia, partially stabilized with calcia, which is chemically inert and has good thermal shock resistance. It has exceptional resistance to oxidizing and reducing atmospheres at high temperatures. DZSP resists most corrosive environments, and contains no organic binders, produces no smoke and will not outgas.

Stackable Trays:

- 100 x 100 mm
- 150 x 150 mm
- 170 x 170 mm
- 100 x 196 mm

Setter:

112.5 x 60.3 mm

Flat Plates:

- 4" x 4" x 0.25" Tk
- 4" x 4.5" x 0.25" Tk
- 4.5" x 4.5" x 0.4" Tk
- 5" x 6" x 0.4" Tk

Properties & Characteristics

Properties (Nominal)	DZSP
Density, lb/ft ³	250
Porosity, %	30
Linear Shrinkage, % 1hr @ 1650 °C	.3
Thermal Expansion at 1000 °C, %	0.75
Bending Strength, MPa	20
Composition Wt% (Nominal)	
ZrO ₂ ⁽¹⁾	>95
CaO	3

⁽¹⁾ 1-2% weight hafnia (HfO₂) occurs naturally with zirconia (ZrO₂) and does not affect performance.

For more information,
phone: (845) 651-3040
email: sales@zircarzirconia.com
website: www.zircarzirconia.com

Product Samples

FREE SAMPLES

Call: 845-651-3040

email: sales@zircarzirconia.com

Size	Item #
1.8"x 2.8"x 0.25"	SAMPLE-BJA



Custom Design Quotations

Contact Us For A Quotation For Your Custom Part

Call: 845-651-3040

email: sales@zircarzirconia.com

Zircar manufactures and machines custom fibrous alumina and zirconia insulation shapes to your design specifications.

Our capabilities include:

- 3D CNC Machining
- Layered Configurations
- Lap Joined Boards and Cylinders
- Diamond Wire Splitting of Cylinders



Standard Sizes

DZSP trays and plates are available in the standard sizes shown below. Please contact our sales department for pricing and availability.

DZSP

Size	Item Number
Tray - 100 x 100 mm	BJA001
Tray - 150 x 150 mm	BJA002
Tray - 170 x 170 mm	BJA003
Tray - 100 x 196 mm	BJA010
Setter - 112.5 x 60.3 mm	BJA014
4" x 4" x 0.25"Tk	BJA005
4" x 4.5" x 0.25"Tk	BJA006
4.5" x 4.5" x 0.4"Tk	BJA008
5" x 6" x 0.4"Tk	BJA009



Zircar Zirconia, Inc.
87 Meadow Road
P.O. Box 287
Florida, New York 10921

Phone: (845) 651-3040
Fax: (845) 651-0074
Email: sales@zircarzirconia.com
www.zircarzirconia.com