

## DASP

### Dense Alumina Setter Plate

Dense Alumina Setter Plates are Available From the Manufacturer of the Original ZIRCAR Products

- Usable in Multiple Atmospheres
- 1800 °C Use Limit in Air
- 1700 °C Use Limit in Hydrogen
- Highly Refractory
- 100% Inorganic
- No Off-gassing or Odors

**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



### High Purity... Highly Refractory... Continuous Use to 1800 °C...

DASP is available as a solution for dense refractory requirements.

### Properties & Characteristics

Properties (Nominal)	DASP
Density g/cc	3.2
Continuous Use Temperature °C (°F) <sup>(1)</sup>	1800 (3272)
Flexural Strength psi at 20 °C (68 °F)	6,800
Thermal Expansion Coefficient	8.4 x 10 <sup>-6</sup> /°C
Gas Permeability	Nil
Alumina Purity	99.5%

<sup>(1)</sup> Continuous use temperature is dependent on variables such as the chemical environment and stresses; both thermal and mechanical.

### Product Information

Zircar Aluminum Oxide Plates Type DASP are strong, rigid, high purity, refractory, for use as high temperature hearth plates, kiln furniture, separators and weights. DASP is 99.5% pure alumina, which is chemically inert and dimensionally stable to 1800°C. Dense alumina setter plates have exceptional sag resistance to both oxidizing and reducing atmospheres at high temperatures and most corrosive environments and are normally used as hearth plates in rapid heat electric furnaces.

For more information,  
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email: sales@zircarzirconia.com  
website: www.zircarzirconia.com

## Applications

### HEARTH PLATES

DASP is used as a hearth plate in rapid cycle furnaces. The plate can be set directly on the furnace insulation.

### KILN FURNITURE

Multiple plates and pieces can be stacked or arranged as layers for shelving.

### SETTER PLATES

DASP can be used in direct contact with the material to be high fired. Its 99.5% alumina purity makes contamination a rarity.

### WEIGHTS

During the firing process, DASP can be set up to restrain shrinkage.

## Product Samples & Standard Sizes



### DASP

Size	Item #
1.8"x 2.8"x 0.5"	SAMPLE-BK
6"x 6"x 0.5"	BK507

## Custom Design Quotations

### Contact Us For A Quotation For Your Custom Part

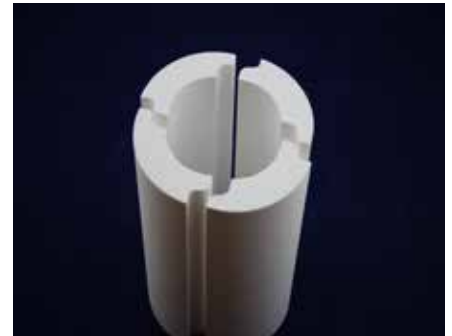
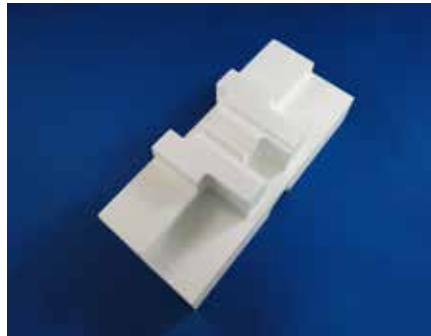
Call: 845-651-3040

email: [sales@zircarzirconia.com](mailto:sales@zircarzirconia.com)

**Zircar** machines custom shapes to your design specifications.

Our capabilities include:

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



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