



Advanced Fibrous Ceramics

DASP - Dense Alumina Setter Plate

91% & 99% Al₂O₃

Zircar Aluminum Oxide Plates, DASP, are strong, rigid, high purity, refractories, for use as high temperature hearth plates, kiln furniture, separators and weights. DASP are a coarse grain structure with a lower density than the smooth finish dense alumina on the market. Dense alumina setter plates have exceptional sag resistance to both oxidizing and reducing atmospheres at high temperatures and most corrosive environments.

DASP is usable in multiple atmospheres. DASP-99 can be used for temperatures up to 1870°C, and DASP-91 for temperatures to 1775°C in air.

DASP is 100% inorganic and will not off-gas upon firing.



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 purity makes contamination a rarity.

WEIGHTS

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

Properties & Characteristics

Properties (Nominal)	DASP-91	DASP-99
Density g/cc	2.9	3.2
Apparent Porosity, %	15-18	15-18
Continuous Use Temperature °C (°F) ⁽¹⁾	1700 (3100)	1800 (3272)
Thermal Conductivity @ 1200°C, W/mk	2.3	2.3
Thermal Expansion Coefficient	7.0 x 10 ⁻⁶ /°C	8.4 x 10 ⁻⁶ /°C
Gas Permeability	Nil	Nil
Alumina Purity	90.8%	99.6%

⁽¹⁾ Use temperature is dependent on variables such as the chemical environment and stresses; both thermal and mechanical.

To Place an Order

Call: 845-651-3040

email: sales@zircarzirconia.com

store: www.zircarzirconia.com/store



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

Phone: (845) 651-3040
Email: sales@zircarzirconia.com
website: www.zircarzirconia.com
store: www.zircarzirconia.com/store