



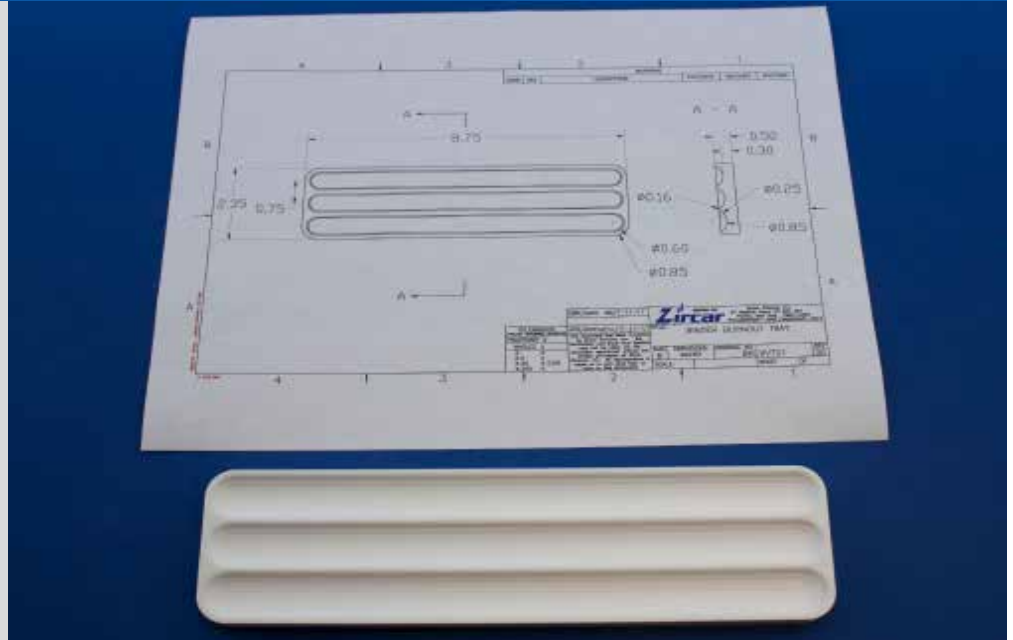
Buster CXV

Organic Free Calcium Silicate Board

The Cost Effective Option for High Temperature Insulation

Features

- Prefired and Organic Free
- Machinable
- Lightweight
- Low Thermal Conductivity (K)
- Good Compressive Strength
- Temperature Rating Up To 1100 °C
- Thicknesses up to 3"
- Custom Machined to Your Specifications



High Strength... Low Thermal Conductivity...

A strong, lightweight board for back-up insulation or custom shapes.

Product Information

Zircar supplies Buster CXV, a non-fibrous insulation, organic free, lightweight board. It is offered in board form and in your custom machined design. As with our other Buster material, it is readily machinable. It can be shaped by drilling, routing, and cutting, and has been used in applications where tight tolerances are needed. Buster CXV is an ideal choice for back-up insulation to a furnace hot face. The material is fire-proof and can be used for various applications where direct flame contact may happen.

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

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

Properties & Characteristics

Properties (Nominal)	CXV	
Color	White	
Bulk Density, lb/ft ³	15.3	
Porosity %	90	
Maximum Use Temperature ⁽¹⁾ , °C (°F)	1100 (2012)	
Flexural Strength, MPa (psi) @ 10% Compression	1.9 (274)	
Compressive Strength MPa (psi)	1.5 (218.9)	
Thermal Expansion Coefficient @ 20 °C-750 °C (68 °F-1382 °F), K ⁻¹ (°F ⁻¹)	5.5x10 ⁻⁶ (3.1x10 ⁻⁶)	
Linear Shrinkage, % 1 hour at 1832 °F (1000 °C)	1.2	
Thermal Conductivity - k		
W/mk (BTU/hr ft ² °F/inch) at 200 °C (392 °F)	0.07 (0.49)	
W/mk (BTU/hr ft ² °F/inch) at 400 °C (752 °F)	0.09 (0.62)	
W/mk (BTU/hr ft ² °F/inch) at 600 °C (1112 °F)	0.1 (0.69)	
Specific Heat (BTU/lb°F)	0.2	
Chemical Composition (Nominal)		
	Oxide	
	SiO ₂	47
	CaO	45
	MgO	0.6
	Al ₂ O ₃	0.3
	Fe ₂ O ₃	0.3
	K ₂ O	0.1
	Na ₂ O	0.1
Loss on Ignition, % 1000 °C (1832 °F)	2	

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

Custom Design Quotations

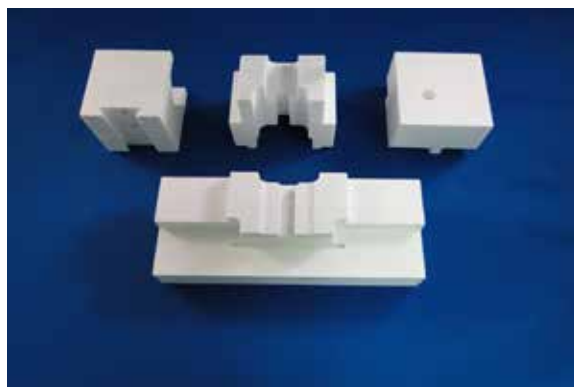
Contact Us For A Quotation For Your Custom Part

Call: 845-651-3040
email: 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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