Zircar

Advanced Fibrous Ceramics

BELLA

Alumina Refractory Ceramic Fiber Boards

Zircar Bella boards are rigid fiber insulation boards for multipurpose applications. They are composed of RCF washed fibers and alumina and organic binders that burn out with minimal shrinkage in their installed position. Bella is made from washed refractory ceramic fiber (RCF), a high-purity, processed aluminosilicate fiber with minimal "shot" content (unfiberized particles), resulting in increased uniformity, softness, and reduced skin irritation. The washing process removes impurities and non-fibrous "shot," improving the material's flexibility, surface finish, and insulating performance.

Bella boards are supplied in their 'green state' for handleability reasons, and should be installed prior to a burn-out or final firing cycle.

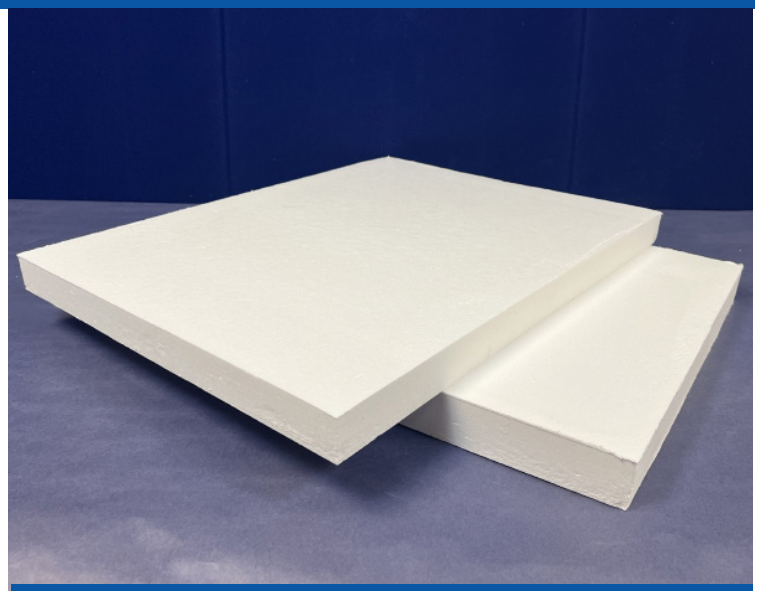
Applications include hot face insulation for furnaces up to 1200°C, back-up insulation for high temperature and brick refractory furnaces, high temperature flue and chimney liners, combustion chamber panels, or any application where self supporting insulation material is needed.

To Place an Order

Call: 845-651-3040
email: sales@zircarzirconia.com
store: www.zircarzirconia.com/store

Bella Boards

Size	Item Number
	Bella-15
18"W x 24"L x 0.50"Tk	ME0001
18"W x 24"L x 1.00"Tk	ME0002
18"W x 24"L x 1.50"Tk	ME0003
18"W x 24"L x 2.00"Tk	ME0004



Properties and Characteristics

Properties	Bella-15
Color	Off-White
Bulk Density, lb/ft^3 (g/cm^3)	15 (0.24)
Porosity %	95
Maximum Use Temperature[1], °F (°C)	2192 (1200)
Flexural Strength, MPa (psi) [2]	0.32 (47)
Compressive Strength MPa (psi) @10% Compression [2]	0.16 (23)
Linear Shrinkage 1 hour at 2012 °F (1100 °C), % [2]	3.0
Thermal Conductivity, W/mk (BTU/hr ft^2 °F/inch) at 2012 °F (1100 °C)[3]	0.22 (1.5)
Chemical Composition (nominal)	
Oxide	**Wt%**
Al_2O_3	53
SiO_2	42
Other Oxides	Trace
Organic Material	4.5

[1] Maximum use temperature is dependent on variables such as the chemical environment and stresses; both thermal and mechanical.
[2] Properties are parallel to thickness.
[3] Properties are perpendicular to thickness.