



CERA WOOL & BLOCKS

BULK FIBRE

(1) Cerafibre (Standard)

(2) Cerachem Fibre (Zirconia)

Bulk Fibre is uniquely designed from pure raw materials and specially processed to offer excellent performance in high-temperature applications. Bulk Fibre offers an alternative to traditional solutions due to its exceptional properties of high refractoriness and excellent non-wetting characteristics in applications requiring direct contact with molten aluminum.

Bulk Fibre provides stability and resistance to chemical attack. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis (i.e. NaOH, KOH). Bulk Fibre is unaffected by incidental spills of oil or water. Thermal and physical properties are restored after drying.

Although Bulk Fibre's basic fiber form offers an economical alternative for most applications, they can be engineered to meet the requirements of your most demanding application. Fiber diameter, shot content, fiber length and form can be altered as required to achieve desired properties for specific applications.

Product's Name	Thickness (mm)	Dimensions (mm)	Density (kg/m ³)	Thermal Conductivity (W/mK) (at mean temperature of 600 °C depending on density)	Classification Temperature
Cerafibre, Standard	NA	NA	NA	NA	1260°C
Cerachem Fibre, Zirconia	NA	NA	NA	NA	1425°C



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BOARDS & SHAPES

(1) 1260

(3) 1400

(5) HS-45

(2) Strong

(4) 1600

(6) SS 800

BTU-BLOCK products are a family of microporous insulation designed for use in high temperature industrial applications. Microporous insulation is a very high thermal efficiency material which has a thermal conductivity less than that of still air. These materials, consisting of fine diameter heat resistant particles, reinforcement fibers, and high temperature radiation blockers, address the primary modes of heat transfer in a novel way compared to traditional refractories. These components are appropriately sized and configured to create a microporous structure. This structure limits the number and movements of air particles, and creates a material of exceptionally low thermal conductivity. At elevated temperatures, the radiation blockers are employed to minimize radiation heat transfer by again proper sizing and distribution.

Microporous materials offer benefits in industrial applications including:

Minimizing heat loss relates simply to energy saving, or reheat issues. For example, steel ladles containing back-up microporous insulation have substantially less solidified steel remaining in the ladle after the casting process is complete, which requires reheating.

Consistency of operating temperatures, which results in a more consistent final product or an easier process to regulate and control.

Minimum space requirements for an equivalent temperature drop across the insulation component, microporous material may need as little as 1A the thickness compared to traditional fibrous material (at elevated temperatures). BTU-Block Board can be field fabricated to shape or supplied from Thermal Ceramics in intricate shapes or custom sized boards.

Product's Name	Thickness (mm)	Dimensions (mm)	Density (kg/m ³)	Thermal Conductivity (W/mK) (at mean temperature of 600 °C depending on density)	Classification Temperature
1260	5,10,15, 20, 25, 38 & 50	500 x1000, 600 x 1000	260	0.113	1260°C
Strong	5,10, 15, 20, 25, 38 & 50	500 x1000, 600 x 1000	330	0.125	1260°C
1400	5,10,15, 20, 25, 38 & 50	500 x1000, 600 x 1000	230	0.102	1400°C
1600	15, 25	500 x1000, 600 x 1000	200	0.079	1260°C
HS -45	5,10,15, 20, 25, 38 & 50	500 x1000, 600 x 1000	720	0.147	1260°C
SS 800	5,10,15, 20, 25, 38 & 50	500 x1000, 600 x 1000	800	0.147	1260°C