

# B-85 Board



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## B85 耐高温高强度硬板

B85 板系专为在高温下仍需高强度(硬度, 抗压强度, 挠曲强度)及低热传材料之保温断热材之场所所研发之产品. **B85 不含任何石棉且可用来取代纤维水泥板, 纤维补强塑料板, 镁橄榄石板, 硅酸钙板等材料, 并特别适于下列用途:**

- 加温模具保温断热
- 大跨距炉顶表层
- 感应炉
- 金属夹层间之断热支撑

## B85 High temperature strength Board

B85 is a structural insulation board with high compressive and flexural strength and low thermal conductivity at elevated temperature up to 1000°C. It contains no asbestos and is an ideal substitute to calcium silicate board, fiber reinforced plastic board, fiber cement board for following applications:

- press platen mold insulation
- induction furnace insulation
- big span furnace roof insulation

厚度 Thickness (inch)	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1.25", 1.5", 2", 3"
板面呎吋 Sheet Sizes(ftxft)	4x8
密度 Density (g/cm <sup>3</sup> )	1.362
<b>最高耐温 Max. application temp.(°C)</b>	<b>972</b>
<b>热传导系数 Thermal Conductivity (W./M.K.)</b>	<b>0.31 (205 °C), 0.28(425 °C), 0.29(538 °C)</b>
抗压强度 Compressive Strength (kg/cm <sup>2</sup> )	724
抗压强度, 5%变形率 Compressive strength at 5% strain (kg/cm <sup>2</sup> )	450
挠曲强度 Flexural Strength (kg/cm <sup>2</sup> )	210
挠曲强度, 315 °C, 24 小时 Flexural Strength, 315 °C, 24 hours (kg/cm <sup>2</sup> )	169
挠曲强度, 649 °C, 24 小时 Flexural Strength, 649 °C, 24 hours (kg/cm <sup>2</sup> )	147
收缩率, 537 °C, 24 小时 Shrinkage, 537 °C, 24 hours (%)	0.1 (长/宽 linear), 1.0(厚 thickness)
收缩率, 732 °C, 24 小时 Shrinkage, 732 °C, 24 hours (%)	0.15 (长/宽 linear), 1.3(厚 thickness)
收缩率, 871 °C, 24 小时 Shrinkage, 817 °C, 24 hours (%)	0.24 (长/宽 linear), 2.0(厚 thickness)
水份含有率 moisture content (%)	1.0
体积电阻(Ohm-cm), Volume Resistivity, ASTM D257	4.52x10 <sup>12</sup>
绝缘强度(V/mil), Dielectric Strength, ASTM D495	61
抗电弧性(Second), Arc Resistance, ASTM D495	304
化学成份 Chemical Composition	Calcium Silicate 60-75% Calcium Metasilicate 20-35% Natural Organic Fiber 1-3% Quartz 0.1-2%