

# B-85 Board



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## B85 耐高溫高強度硬板

B85 板係專為在高溫下仍需高強度(硬度, 抗壓強度, 撓曲強度)及低熱傳材料之保溫斷熱材之場所所研發之產品. **B85 不含任何石棉且可用來取代纖維水泥板, 纖維補強塑膠板, 鎂橄欖石板, 矽酸鈣板等材料, 並特別適於下列用途:**

- 加溫模具保溫斷熱
- 大跨距爐頂表層
- 感應爐
- 金屬夾層間之斷熱支撐

## 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
最高耐溫 Max. application temp.(°C)	972
熱傳導係數 Thermal Conductivity (W./M.K.)	0.31 (205 °C), 0.28(425 °C), 0.29(538 °C)
抗壓強度 Compressive Strength (kg/cm <sup>2</sup> )	724
抗壓強度, 5%變形率 Compressive strength at 5% strain (kg/cm <sup>2</sup> )	450
撓曲強度 Flexural Strength (kg/cm <sup>2</sup> )	210
撓曲強度, 315 °C, 24 小時 Flexural Strength, 315 °C, 24 hours (kg/cm <sup>2</sup> )	169
撓曲強度, 649 °C, 24 小時 Flexural Strength, 649 °C, 24 hours (kg/cm <sup>2</sup> )	147
收縮率, 537 °C, 24 小時 Shrinkage, 537 °C, 24 hours (%)	0.1 (長/寬 linear), 1.0(厚 thickness)
收縮率, 732 °C, 24 小時 Shrinkage, 732 °C, 24 hours (%)	0.15 (長/寬 linear), 1.3(厚 thickness)
收縮率, 871 °C, 24 小時 Shrinkage, 817 °C, 24 hours (%)	0.24 (長/寬 linear), 2.0(厚 thickness)
水份含有率 moisture content (%)	1.0
體積電阻(Ohm-cm), Volume Resistivity, ASTM D257	4.52x10 <sup>12</sup>
絕緣強度(V/mil), Dielectric Strength, ASTM D495	61
抗電弧性(Second), Arc Resistance, ASTM D495	304
化學成份 Chemical Composition	Calcium Silicate 60-75% Calcium Metasilicate 20-35% Natural Organic Fiber 1-3% Quartz 0.1-2%