

Ceramic Board Properties

| INDEX | HP GRADE (Low Density) | HP GRADE (High Density) | HZ GRADE |
|---|--|--|--|
| Temperature | 2300°F | 2300°F | 2600°F |
| Working Temp. | 2100°F | 2100°F | 2462°F |
| Melting Point | 3200°F | 3200°F | 3300°F |
| Color | Off White | Off White | Off White |
| Available Density (kg/m ³) (lbs/ft ³) | 260-290 16-18 | 350-400 22-25 | 360-380 20-22 |
| LOI(% by WT) | 6 - 7% | 6 - 7% | 6 - 7% |
| Dielectric Strength | 25.4 volts/mil | 25.4 volts/mil | 25.4 volts/mil |
| Shrinkage (%) 24 Hrsat temp. °F | -3 (2012°F) | -3 (2012°F) | -3 (2462°F) |
| Thermal Conductivity @ 400 °C (752°F) @ 800 °C (1472°F) @ 1000°C(1832°F) | w/m-k (Btu in./hr/ft ² °F) 0.085 (.589) 0.132 (.915) 0.180 (1.25) | 0.095 (.659) 0.154 (1.07) 0.200 (1.39) | 0.092 (.638) 0.143 (.991) 0.185 (1.28) |
| Tensile (Mpa) | 0.5 (psi) | 0.5 (psi) | 0.5 (psi) |
| Chem Analysis | | | |
| Al ₂ O ₃ | 47-49 | 47-49 | 39-40 |
| SiO ₂ | 50-52 | 50-52 | 42-45 |
| ZrO ₂ | -- | -- | 15-17 |
| Fe ₂ O ₃ | 0.2 | 0.2 | 0.2 |
| Na ₂ K ₂ O | <0.5 | 0.2 | 0.2 |
| Sizes Available Thickness | 24"x36; 24x48 1/2, 1", 1.5", 2" | 24x36"; 24x48" 1/4", 1/2", 1", 1.5", 2" | 24"x36; 24"x48" 1", 1.5", 2" |

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