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Technical Data Sheet

HPA-70 Mullite Kiln Furniture

HPA-70 is a mullite (approximately 70% alumina) kiln furniture material designed for excellent thermal shock resistance and good hot strength up to 1450°C. HPA-70 is recommended in applications where the temperatures and/or chemical interactions preclude the use of lower temperature ceramic materials such as cordierite or fused silica but are not severe enough for high alumina (i.e. +90% alumina).

| Typical Thermal and Physical Properties | |
|---|-----------|
| Max Operating Temperature (°C) | 1450°C |
| Bulk Density (g/cc) | 2.3 g/cc |
| Apparent Porosity (%) | 17 to 20% |
| Thermal Expansion ($\times 10^{-6}/^{\circ}\text{C}$) | 5.5 |
| Hot Modulus of Rupture @1250°C (MPa) | 8.5 |

| Typical Chemical Analysis (%) | |
|--------------------------------|------|
| Al ₂ O ₃ | 70.4 |
| SiO ₂ | 27.4 |
| Fe ₂ O ₃ | 0.7 |
| TiO ₂ | 1.3 |
| Other | 0.2 |

The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures, or estimates based on previous analysis of similar materials. They are subject to normal variation and should not be used for warranty or specification purposes.