

RocCera

Alumina

RocCera Thermally Stable Alumina

Alumina: 96%

Typical Properties:

Chemical Composition	Weight %	Al ₂ O ₃ -95.7, SiO ₂ - 2.2, CaO - 1.6 MgO - 0.3, ZrO ₂ -0.3
Crystal Structure		α-Alumina
Density	gram/cc	3.765
Color		Ivory
Young's Modulus @ RT	GPa / psi	320 / 46.4 million
MOR (Bending Strength)	MPa	376
Fracture Toughness	MPa√m	4.7
Thermal Shock critical ΔT for strength reduction retained strength after shock	°C	225 50%
Thermal Conductivity 50 °C 100 °C 500 °C 800 °C	W/m.K	16.6 14.0 8.0 6.8
Thermal Expansion (RT-500°C)	10 ⁻⁶ /C	7.21

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