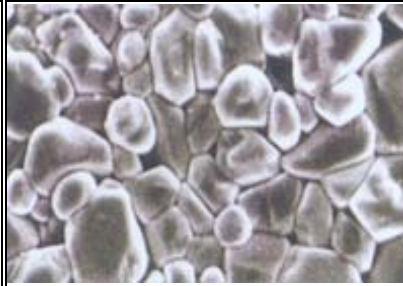


ALUMINA CERAMIC

95% AL₂O₃
 99% AL₂O₃
 99.5% AL₂O₃



99% CERAMIC MICRO STRUCTURE

CAPABILITY, UNIT	ALUMINA CERAMIC	ALUMINA CERAMIC	ALUMINA CERAMIC
CONTENT	AL ₂ O ₃ (99%)	AL ₂ O ₃ (95%)	AL ₂ O ₃ (99.5%)
DENSITY G ³ /CM	3.9	3.7	3.9
FLEXURAL STRENGTH GPA	380	330	
KNOOP HARDNESS	2200	2200	
BENDING STRENGTH MPA (KPSI)	300(43)	260(38)	
COMPRESSION STRENGTH MPA (KPSI)	3450(500)	1725(250)	
FRACTURE TOUGHNESS MPAM ^{1/2}	2.5	2.5	
THERMAL EXPANSION COEFF. 1/ ⁰ K	7.6×10 ⁻⁶	7.3×10 ⁻⁶	
SPECIFIC HEAT JOULE/G. ⁰ K	20	18	
SPECIFIC HEAT, JOULE/G	0.9	0.9	
HEAT RESISTANCE (IN THE AIR), ^L	1600	1500	1600