

AL Alumina Ceramic

Alumina Ceramic is perfect for applications involving tooling, casings and housings, and medical devices – able to withstand high temperatures with high strength properties and chemical resistance.



Powder	PURITY (%)	99.8
	Slurry	
	SOLIDS LOADING (vol%)	50
	DYNAMIC VISCOSITY [Pa·s]	10
Sintered Ceramic	THEORETICAL DENSITY (g/cm ³)	3.99
	COMPRESSIVE STRENGTH (MPa)	2300
	RELATIVE DENSITY (%)	99
	THREE-POINT BENDING STRENGTH (MPa)	400
	SURFACE ROUGHNESS Ra (µm)	<0.5
	YOUNG'S MODULUS (GPa)	300
	COEFFICIENT OF THERMAL EXPANSION (ppm/K)	7-8
	THERMAL CONDUCTIVITY (W/(m·K))	32
	SPECIFIC ELECTRICAL RESISTIVITY (Ω·cm)	≈10 ¹⁴
	COMPATIBLE BMF SYSTEMS	S230, S240

¹ Final properties are dependent on print conditions, post-processing operations, and part geometry.

² Test samples were UV cured and heat cured.