



COMPACT CERAMICS, LLC

ALUMINA PRODUCT DATA SHEET

Material Properties	Units	AL94	AL998	AL995P
				Porous Al ₂ O ₃
		94% Al ₂ O ₃	99.8% Al ₂ O ₃	99.5% Al ₂ O ₃
SPECIFIC GRAVITY	g/cc	3.65	3.89	1.85 ± .1
POROSITY	-	-	-	50-55 %
HARDNESS	ROCKWELL 45N	78	85	85
AVERAGE PORE SIZE	MICROMETERS	-	-	0.8
AVERAGE CRYSTAL SIZE	MICROMETERS	18	3.9	-
FLEXURAL STRENGTH	kpsi	49	62	-
TENSILE STRENGTH	kpsi	28	40	-
COMPRESSIVE STRENGTH	kpsi	304	440	-
YOUNGS MODULUS	psi x 10 ⁶	44	54	-
SHEAR MODULUS	psi x 10 ⁶	18	23	-
POISSON'S RATIO	-	0.21	0.22	-
DIELECTRIC CONSTANT	at 25°C	9.1	9.7	-
WATER ABSORPTION	-	-	-	EXCELLENT
MODULUS OF RUPTURE	psi	-	-	5500