Magnetic Properties of Ceramic Magnets

	Residual Induction Typical	Coercive Force Typical	Intrinsic Coercive Force Minimum	Max Energy Product Reference	Temp Coefficient of Br
Grade	Br	Hcb	Hcj	BH Max	αBr
	kGs	kOe	kOe	MGOe	%/°C
C1	2.30	1.86	3.50	1.05	-0.2
C5	3.80	2.40	2.50	3.40	-0.2
C7	3.40	3.23	4.00	2.75	-0.2
C8 = C8A	3.85	2.95	3.05	3.50	-0.2
C8B	4.20	2.91	2.96	4.12	-0.2
C9	3.80	3.52	4.01	3.32	-0.2
C10	4.00	3.62	3.51	3.82	-0.2
C11	4.30	2.51	2.56	4.32	-0.2

All listed values are approximate and should be used as a reference only. Magnetic or physical characteristics should be verified before selecting a magnet material.

Physical Properties of Ceramic Magnets

Bending Strength	13729 Pa
Compressive Strength	88259 Pa
Coefficient of Thermal Expansion	9-10x10-6/°C(20~100°C ⊥C)
	14-15x10-6/°C(20~100°C ∥C)
Curie Temp	450-460°C
Density	4.70-5.1 g/cm3
Poisson's Ratio	0.2~0.25
Relative Permeability	16-640 μr
Resistivity	>104 μΩ • cm
Specific Heat	0.62-0.85 J/(g • °C)
Temp Coefficient of Hcj	0.25~0.4 %/°C
Thermal Conductivity	0.029 W/m • °C
Vickers Hardness	400~700 HV
Young's Modulus	121602 MPa

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