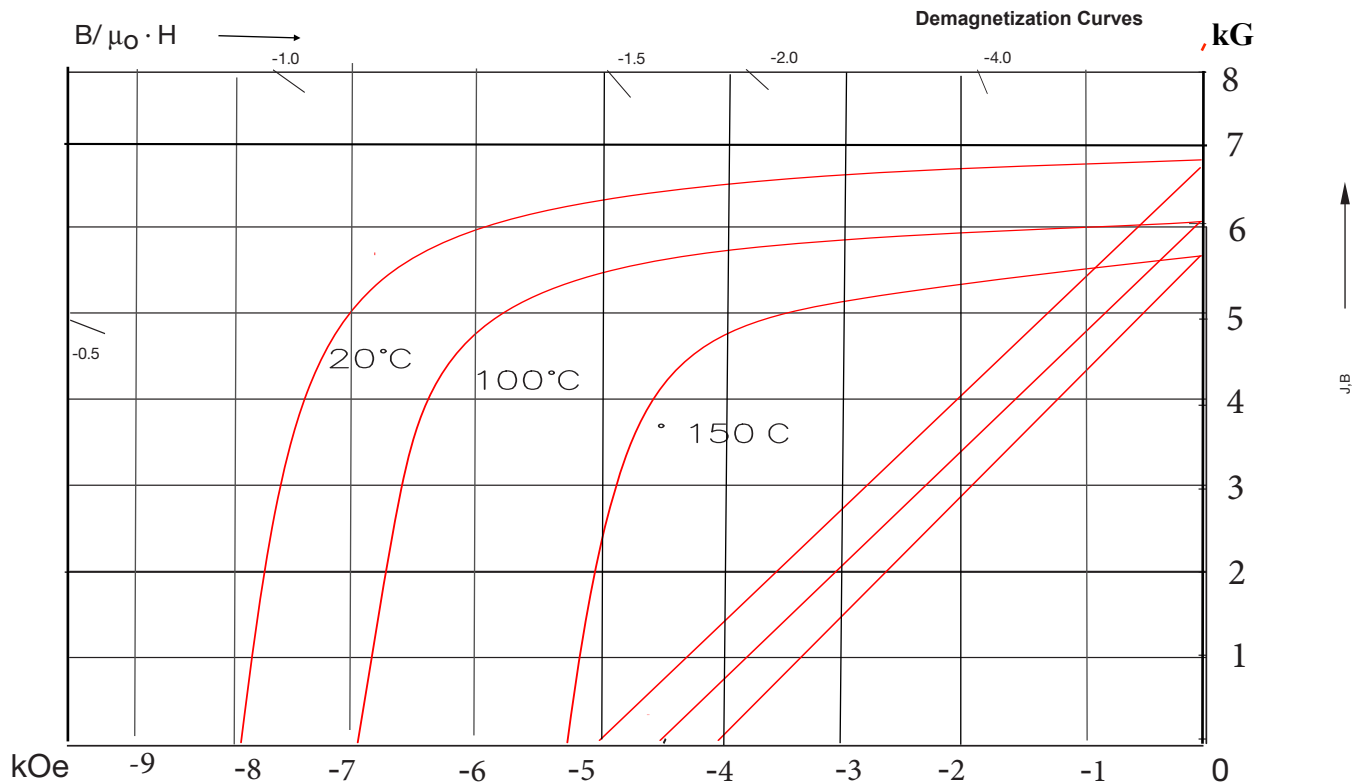


TDA MAGNETICS

Neodymium (Bonded) Grade BND1008



Magnetic Properties		Units	min.	nominal
Br, Residual Induction		Gauss	6,500	6,800
		Tesla	0.65	0.68
H _c , Coercivity		Oersteds	5,000	5,800
		kA/m	397.9	461.5
H _{ci} , Intrinsic Coercivity		Oersteds	8,300	10,000
		kA/m	660.5	795.8
BH _{max} , Maximum Energy Product		MGOe	8.5	10.0
		kJ/m ³	67.6	79.6
Physical Properties		Units	C //	C ⊥
Reversible Temperature Coefficients (1)				
of Induction, α(Br)		%/°C		-0.12
of Coercivity, α(H _{ci})		%/°C		N/A
Coefficient of Thermal Expansion (2)		ΔL/L per °C×10 ⁻⁶	N/A	N/A
Thermal Conductivity		W/(m·K)		N/A
Specific Heat (3)		J/(kg·K)		300
Max. Recommended Use Temperature		°C		150
Curie Temperature, T _c		°C		350
Flexural Strength		psi		N/A
		MPa		N/A
Compressive Strength		psi		N/A
		MPa		N/A
Young's Modulus		GPa		N/A
Density		g/cm ³		0.22
Hardness, Vickers		Hv		N/A
Electrical Resistivity, ρ		Ω · cmμ		N/A

(1) Coefficients measured between 20 and 200 °C

(2) Between 20 and 200 °C

(3) Between 20 and 150 °C