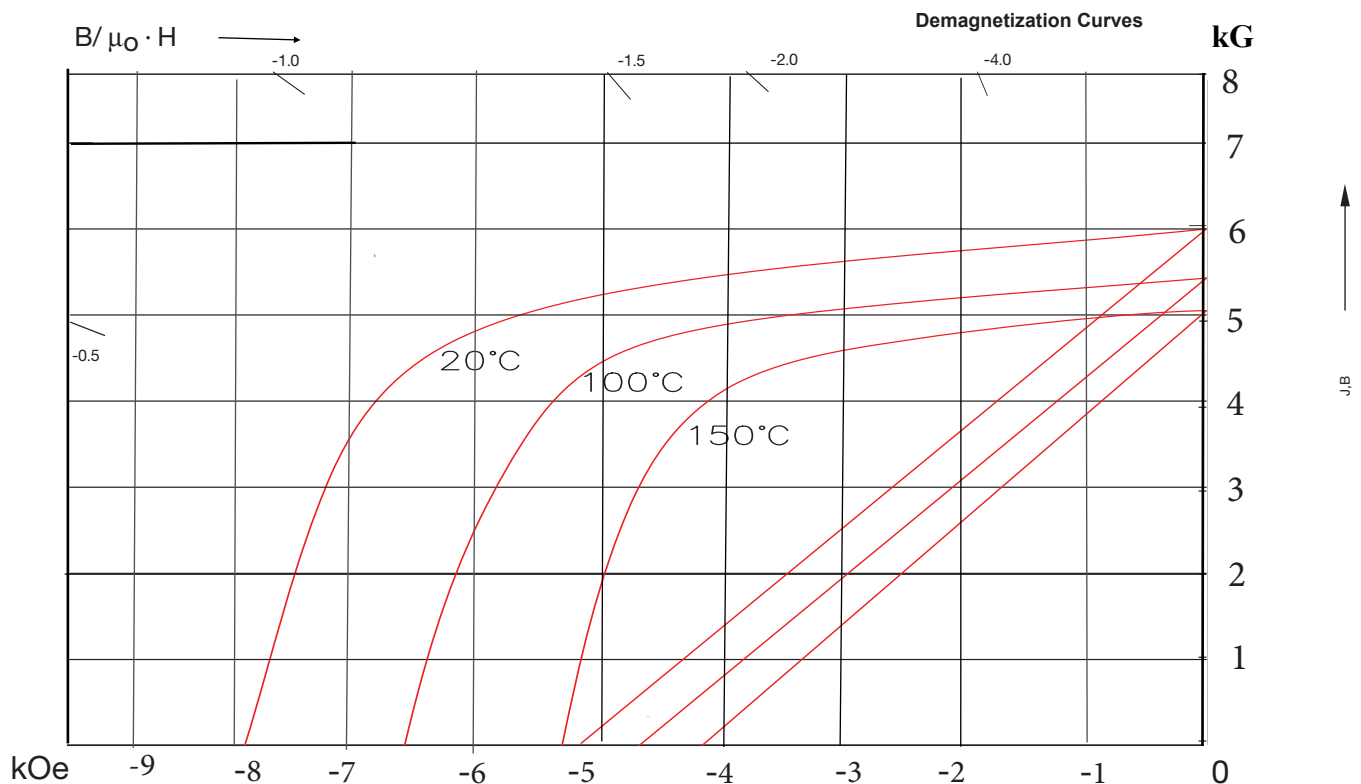


TDA MAGNETICS

Neodymium (Bonded) Grade BND0808



Magnetic Properties		Units	min.	nominal
Br , Residual Induction		Gauss	5,700	6,000
		Tesla	0.57	0.6
H_c , Coercivity		Oersteds	4,700	5,000
		kA/m	374	397.9
H_{ci} , Intrinsic Coercivity		Oersteds	8,300	10,000
		kA/m	660.5	795.8
BH_{max} , Maximum Energy Product		MGOe	5.5	6.0
		kJ/m^3	43.8	47.7
Physical Properties		Units	C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, $\alpha(\text{Br})$		%/°C		-0.12
of Coercivity, $\alpha(\text{Hci})$		%/°C		N/A
Coefficient of Thermal Expansion ⁽²⁾		$\Delta L/L$ per °C $\times 10^{-6}$	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		0.21
Hardness, Vickers		Hv		N/A
Electrical Resistivity, ρ		$\Omega \cdot \text{cm}\mu$		N/A

(1) Coefficients measured between 20 and 200 °C

(2) Between 20 and 200 °C

(3) Between 20 and 150 °C