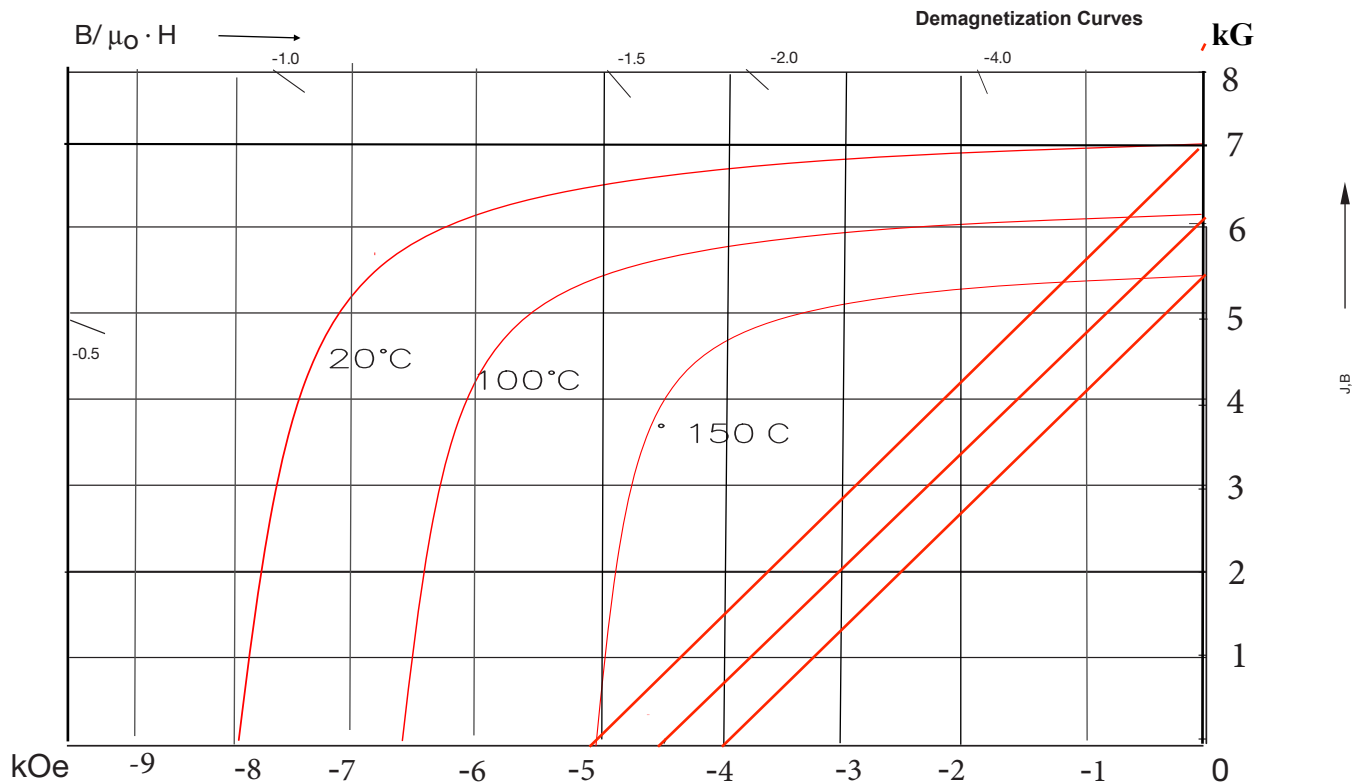


TDA MAGNETICS

Neodymium (Bonded) Grade BND1106



Magnetic Properties		Units	min.	nominal
Br, Residual Induction		Gauss	7,000	7,200
		Tesla	0.7	0.72
Hc, Coercivity		Oersteds	5,000	5,500
		kA/m	397.9	461.5
Hci, Intrinsic Coercivity		Oersteds	7,500	8,000
		kA/m	660.5	795.8
BHmax, Maximum Energy Product		MGOe	10.0	11.0
		kJ/m ³	79.6	87.5
Physical Properties		Units	C //	C ⊥
Reversible Temperature Coefficients (1)				
of Induction, $\alpha(B_r)$		%/°C		-0.12
of Coercivity, $\alpha(H_{ci})$		%/°C		N/A
Coefficient of Thermal Expansion (2)		$\Delta L/L$ per °C x 10 ⁻⁶	N/A	N/A
Thermal Conductivity		W/(m·K)		N/A
Specific Heat (3)		J/(kg·K)		N/A
Max. Recommended Use Temperature		°C		120
Curie Temperature, Tc		°C		310
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		$\Omega \cdot \text{cm} \mu$		N/A

(1) Coefficients measured between 20 and 200 °C

(2) Between 20 and 200 °C

(3) Between 20 and 150 °C