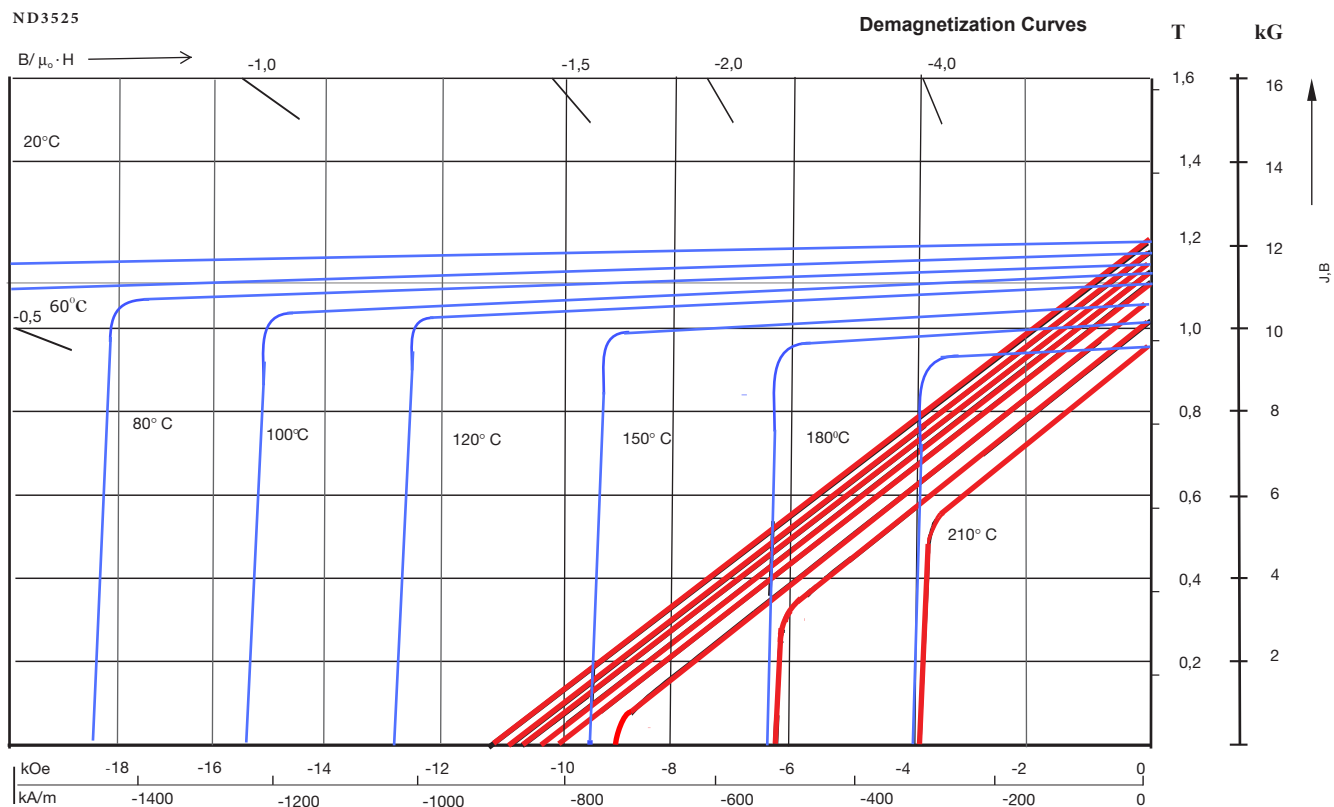


TDA MAGNETICS

Neodymium (Sintered) Grade ND3525



Magnetic Properties		Units	min.	nominal
Br, Residual Induction		Gauss	11,700	12,200
		Tesla	1.17	1.22
Hc, Coercivity		Oersteds	10,996	11,812
		kA/m	875	940
Hci, Intrinsic Coercivity		Oersteds	25,000	30,000
		kA/m	2,000	2,400
BHmax, Maximum Energy Product		MGOe	32.0	36
		kJ/m ³	255	290
Physical Properties		Units	C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾				
	of Induction, α(Br)	%/°C		-0.085
	of Coercivity, α(Hci)	%/°C		-0.51
	Coefficient of Thermal Expansion ⁽²⁾	ΔL/L per °C×10 ⁻⁶	4.9	-2-0
	Thermal Conductivity	W/(m·K)		5-15
	Specific Heat ⁽³⁾	J/(kg·K)		300-500
	Max. Recommended Use Temperature	°C		180
	Curie Temperature, Tc	°C		310-370
	Flexural Strength	psi		N/A
		MPa		N/A
	Compressive Strength	psi		N/A
		MPa		600-1250
	Young's Modulus	GPa		140-400
	Density	g/cm ³		7.6
	Hardness, Vickers	Hv		500-700
	Electrical Resistivity, ρ	Ω · cmμ	1.4-1.6(//C)*	1.2-1.4(⊥C)*

(1) Coefficients measured between 20 and 200 °C

(2) Between 20 and 200 °C

(3) Between 20 and 150 °C