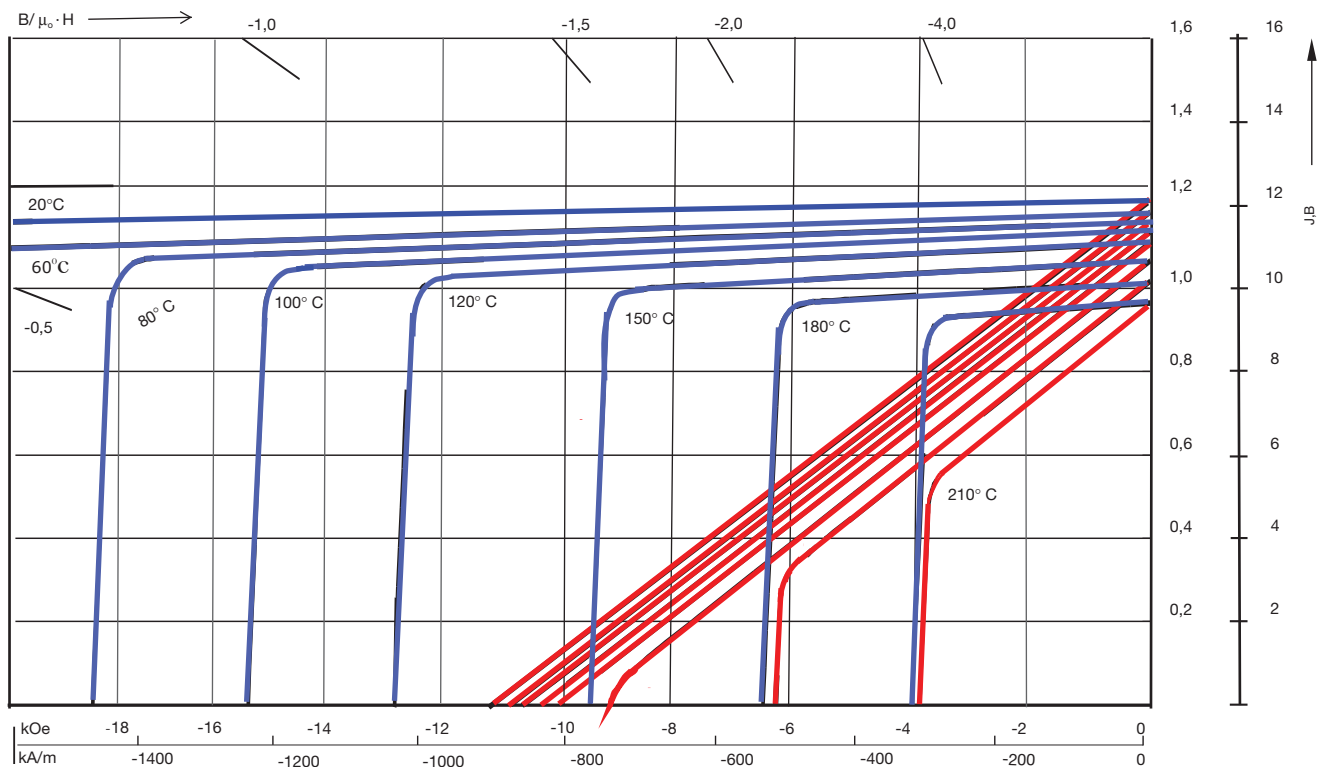


TDA MAGNETICS

Neodymium (Sintered) Grade ND3225

ND3225

Demagnetization Curves



Magnetic Properties		Units	min.	nominal
Br, Residual Induction		Gauss	11,200	11,600
		Tesla	1.12	1.16
Hc, Coercivity		Oersteds	10,304	11,125
		kA/m	820	885
Hci, Intrinsic Coercivity		Oersteds	25,000	30,000
		kA/m	2,000	2,400
BHmax, Maximum Energy Product		MGOe	28.3	32
		kJ/m ³	225	255
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		300-370
Flexural Strength		psi		N/A
		MPa		N/A
Compressive Strength		psi		N/A
		MPa		600-1250
Young's Modulus		GPa		140-170
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