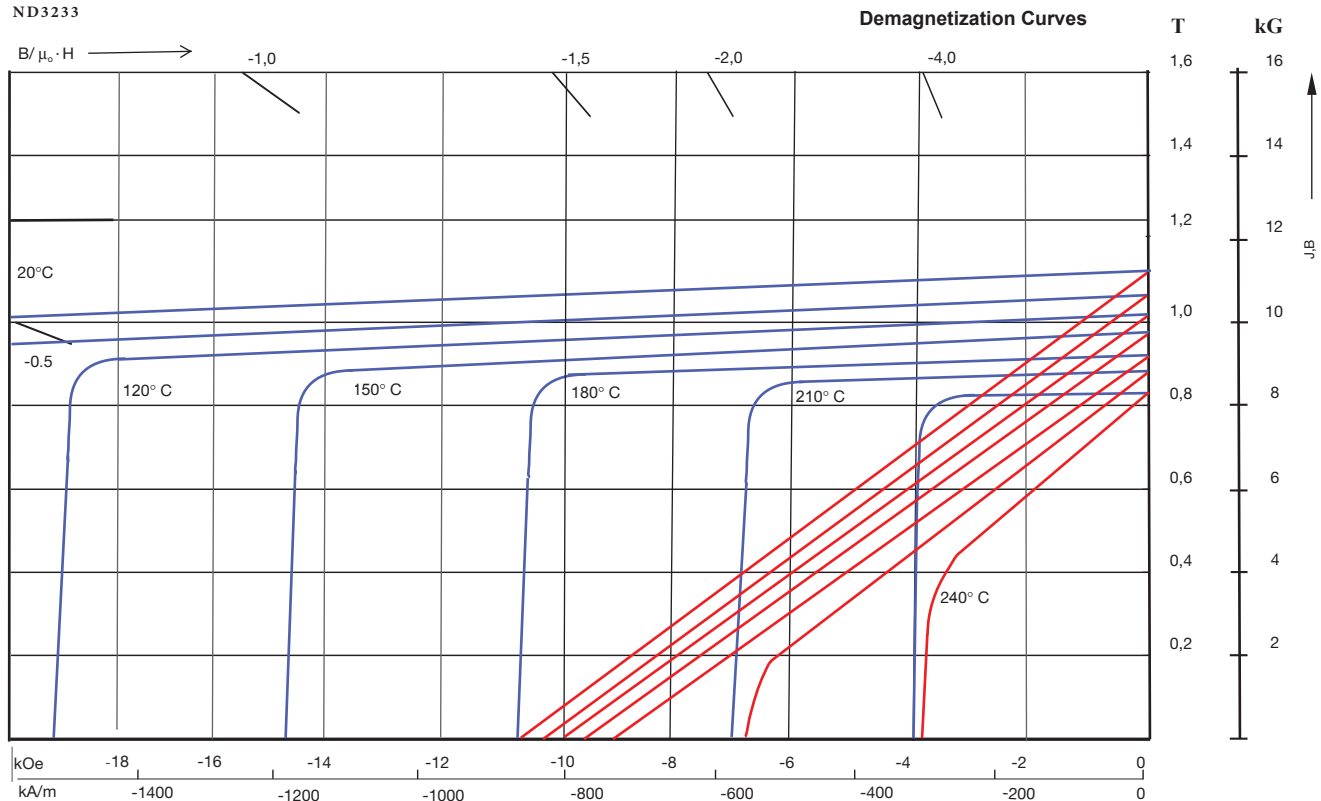


TDA MAGNETICS

Neodymium (Sintered) Grade ND3233

ND3233



Magnetic Properties		Units	min.	nominal
Br , Residual Induction		Gauss	11,100	11,600
		Tesla	1.09	1.14
H_c , Coercivity		Oersteds	10,304	11,100
		kA/m	830	885
H_{ci} , Intrinsic Coercivity		Oersteds	33,000	35,000
		kA/m	2,000	2,625
BH_{max} , Maximum Energy Product		MGOe	28.3	32
		kJ/m ³	225	250
Physical Properties		Units	C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾				
of Induction, α(Br)		%/°C		-0.080
of Coercivity, α(H _{ci})		%/°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		
Curie Temperature, T _c		°C		310-370
Flexural Strength		psi		
		MPa		
Compressive Strength		psi		600-1250
		MPa		
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