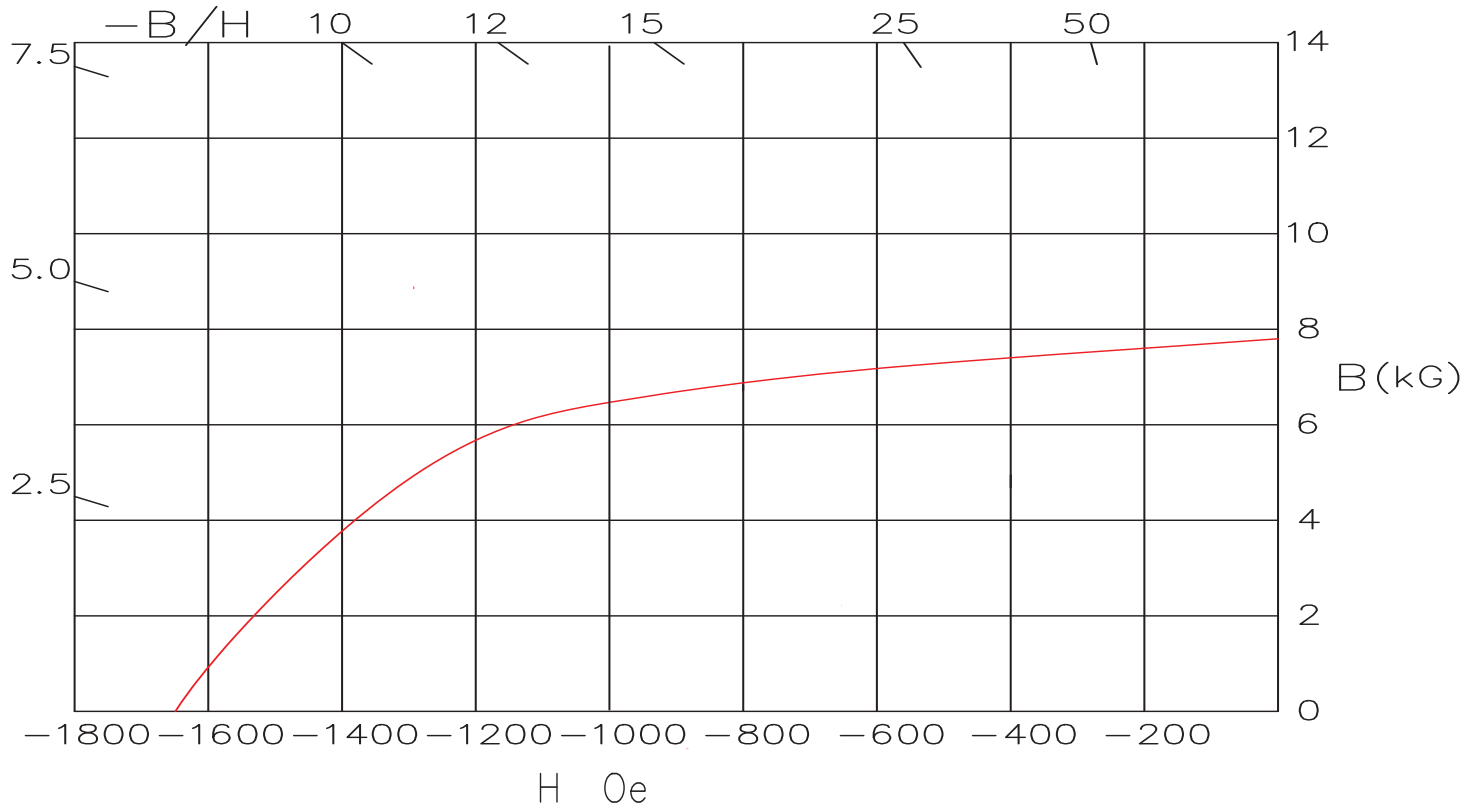


TDA MAGNETICS

Alnico (CAST) Grade AL0801



Magnetic Properties	Units	min.	nominal
Br , Residual Induction	Gauss	7,500	8,200
	Tesla	1.2	1.22
H_c , Coercivity	Oersteds	1,550	1,650
	kA/m	47	47.7
H_{ci} , Intrinsic Coercivity	Oersteds	1,700	1,850
	kA/m	50.1	51.7
BH_{max} , Maximum Energy Product	MGOe	5.0	5.3
	kJ/m ³	31.8	39.8
Physical Properties	Units	C //	C ⊥
Reversible Temperature Coefficients ⁽¹⁾			
of Induction, α(B _r)	%/°C		-0.01
of Coercivity, α(H _{ci})	%/°C		N/A
Coefficient of Thermal Expansion ⁽²⁾	ΔL/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		550
Curie Temperature, T _c	°C		860
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		.264
Hardness, Vickers	Hv		N/A
Electrical Resistivity, ρ	Ω · cmμ		N/A

(1) Coefficients measured between 20 and 200 °C

(2) Between 20 and 200 °C

(3) Between 20 and 150 °C