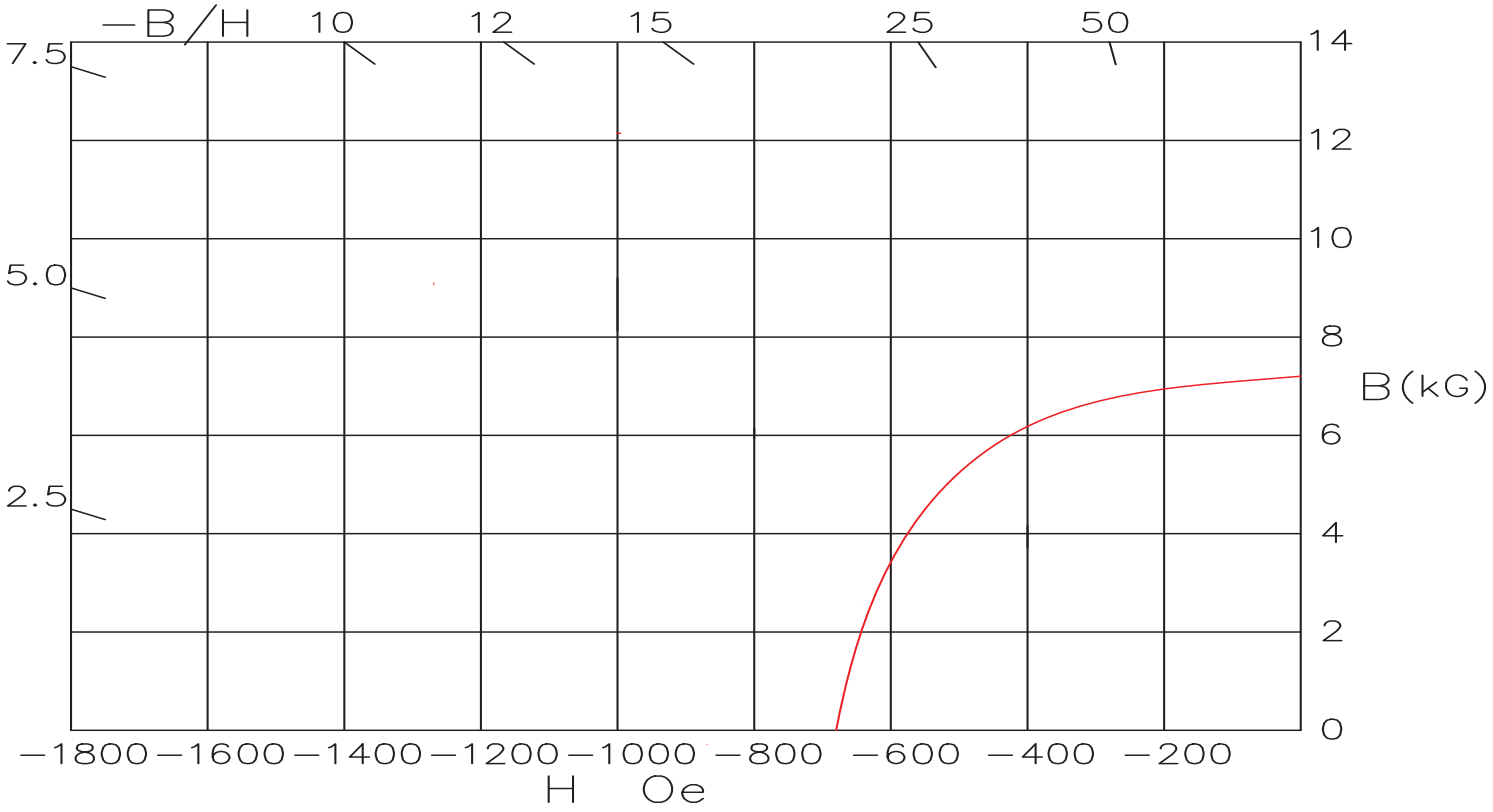
TDA MAGNETICS

Alnico (SINTERED) Grade AL0802



Magnetic Properties	Units	min.	nominal
Br, Residual Induction	Gauss	6,800	7,400
	Tesla	.68	.74
H_C, Coercivity	Oersteds	1,400	1600
	kA/m	111.4	127.3
H_{Ci}, Intrinsic Coercivity	Oersteds	1,600	1,700
	kA/m	127.3	135.3
BHmax, Maximum Energy Product	MGOe	4.8	5.0
	kJ/m^3	38.2	39.8

Physical Properties	Units	C //	C ⊥
Reversible Temperature Coefficients (1)			
of Induction, α(Br)	%/ºC	-0.01	
of Coercivity, α(Hci)	%/ºC	N/A	
Coefficient of Thermal Expansion (2)	$\Delta L/L$ per ºC$x10^{-6}$	N/A	N/A
Thermal Conductivity	W/(m•K)	N/A	
Specific Heat (3)	J/(kg•K)	N/A	
Max. Recommended Use Temperature	ºC	540	
Curie Temperature, Tc	ºC	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 ºC
(2) Between 20 and 200 ºC
(3) Between 20 and 150 ºC

TDA Magnetics 1175 W. Victoria St. Rancho Dominguez Ca, 90220 * tel (424) 213-1585* www.tdamagnetics.com