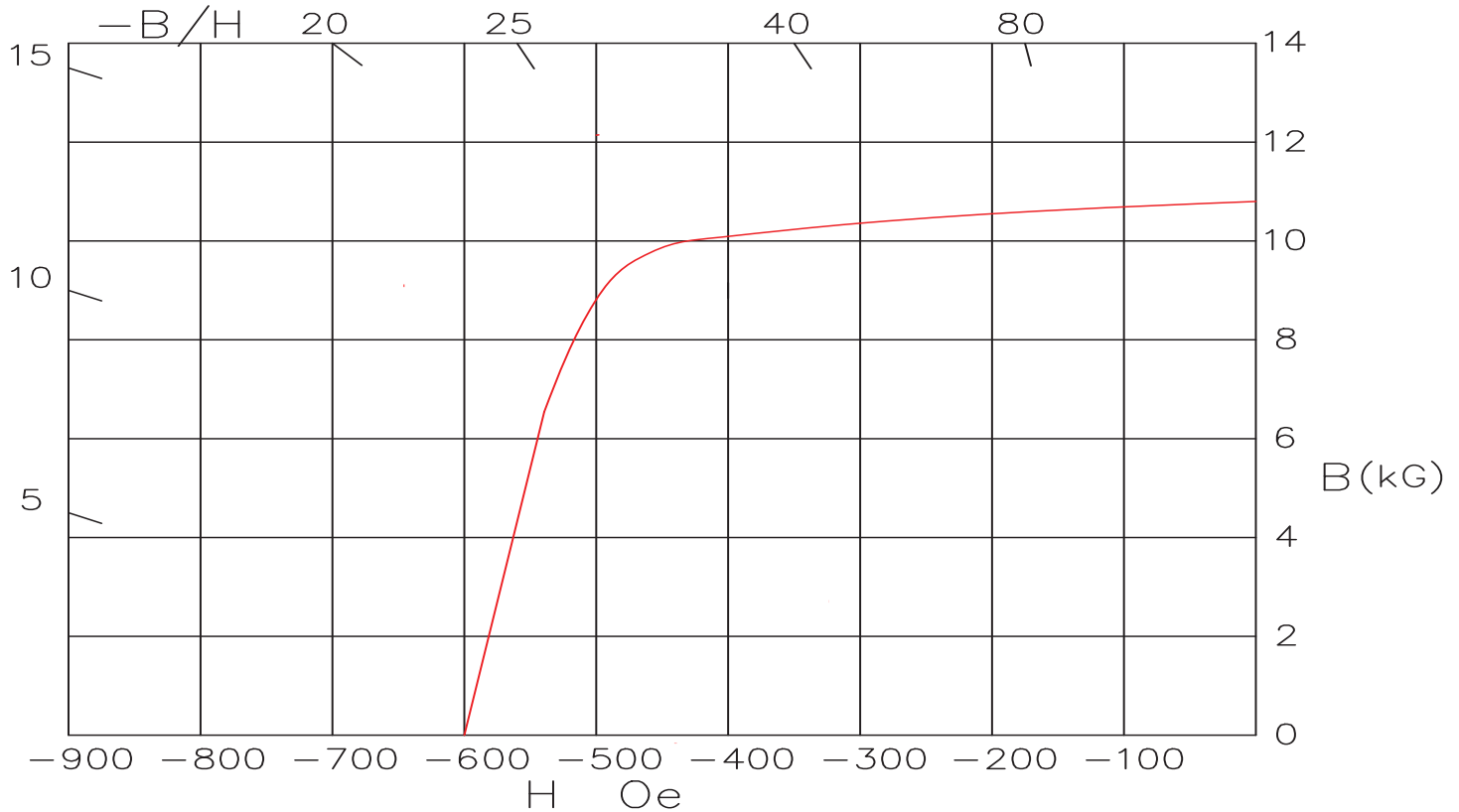


# TDA MAGNETICS

## Alnico (SINTERED) Grade AL0502



Magnetic Properties		Units	min.	nominal
Br, Residual Induction	Gauss		10,500	10,900
	Tesla		1.05	1.09
Hc, Coercivity	Oersteds		540	620
	kA/m		43	49.3
Hci, Intrinsic Coercivity	Oersteds		630	640
	kA/m		50.1	50.9
BHmax, Maximum Energy Product	MGOe		3.5	4.0
	kJ/m <sup>3</sup>		27.9	31.8
Physical Properties		Units	C //	C ⊥
Reversible Temperature Coefficients <sup>(1)</sup>				
of Induction, α(Br)		%/°C		-0.01
of Coercivity, α(Hci)		%/°C		N/A
Coefficient of Thermal Expansion <sup>(2)</sup>		ΔL/L per °C x 10 <sup>-6</sup>	N/A	N/A
Thermal Conductivity		W/(m·K)		N/A
Specific Heat <sup>(3)</sup>		J/(kg·K)		N/A
Max. Recommended Use Temperature		°C		540
Curie Temperature, Tc		°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 <sup>3</sup>		.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