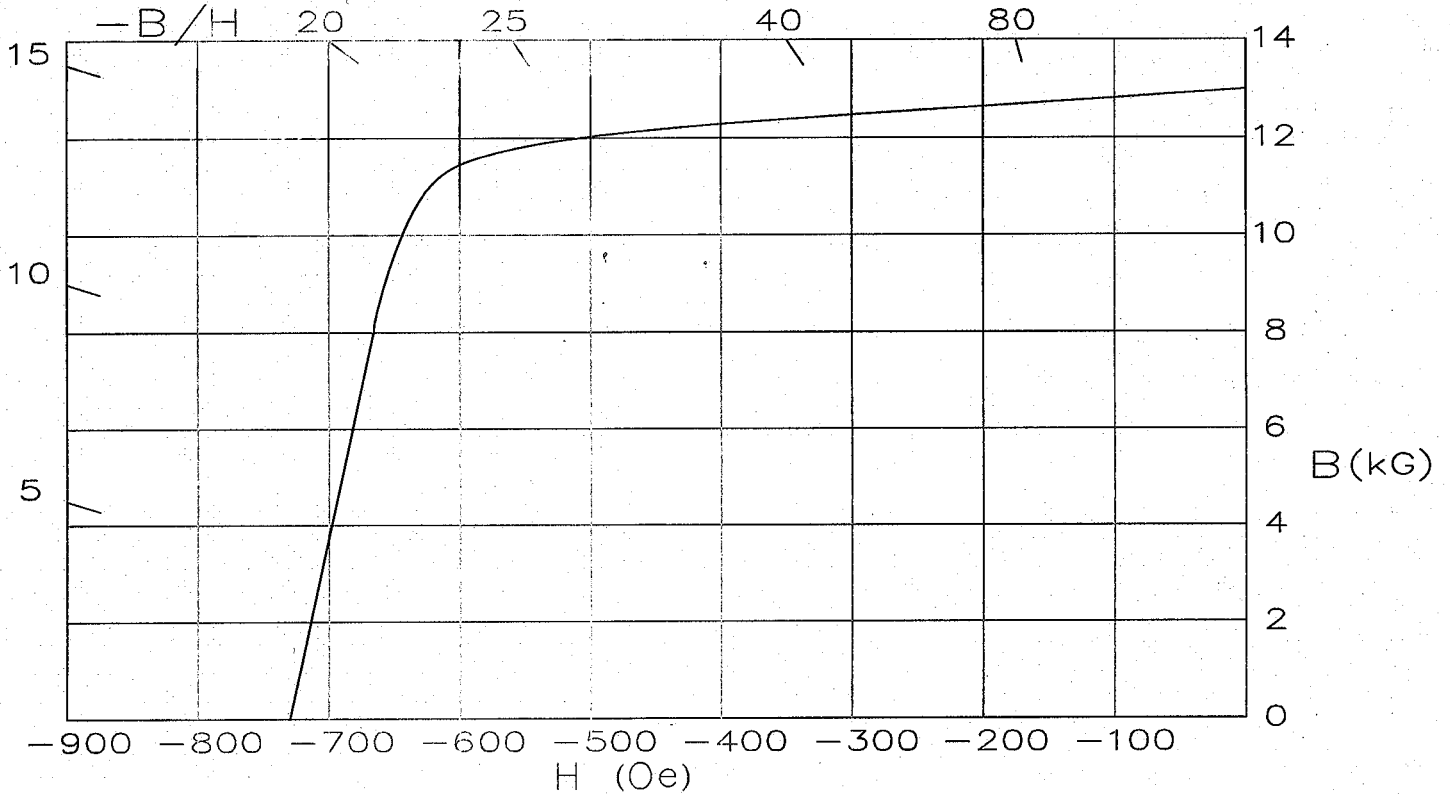


# TDA MAGNETICS

## AL5701(CAST)



Magnetic Properties		Units	min.	nominal
Br, Residual Induction		Gauss	12,800	13,500
		Tesla	1.28	1.35
Hc, Coercivity		Oersteds	700	740
		kA/m	55.7	58.9
Hci, Intrinsic Coercivity		Oersteds	740	750
		kA/m	58.9	59.7
BHmax, Maximum Energy Product		MGOe	7.0	7.5
		kJ/m <sup>3</sup>	55.7	59.7
Physical Properties		Units	C //	C ⊥
Reversible Temperature Coefficients (1)				
of Induction, $\alpha(B_r)$		%/°C		-0.01
of Coercivity, $\alpha(H_{ci})$		%/°C		N/A
Coefficient of Thermal Expansion (2)		$\Delta L/L$ per °C x 10 <sup>-6</sup>	N/A	11.4
Thermal Conductivity		W/(m·K)		N/A
Specific Heat (3)		J/(kg·K)		N/A
Max. Recommended Use Temperature		°C		525
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, $\rho$		$\Omega \cdot \text{cm} \mu$		N/A

(1) Coefficients measured between 20 and 200 °C

(2) Between 20 and 200 °C

(3) Between 20 and 150 °C