Magnetic Alloy 2705M (*cobalt-based*)

Technical Bulletin

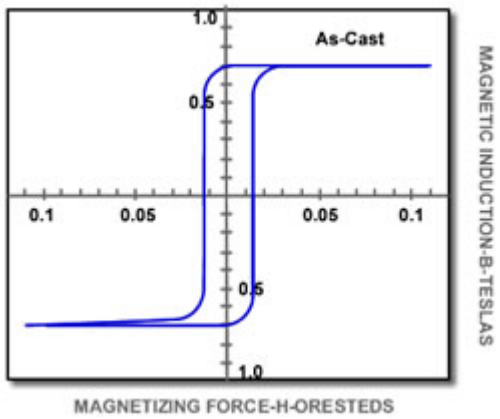
Applications

- Flexible electromagnetic shielding
- Magnetic sensors
- High frequency cores

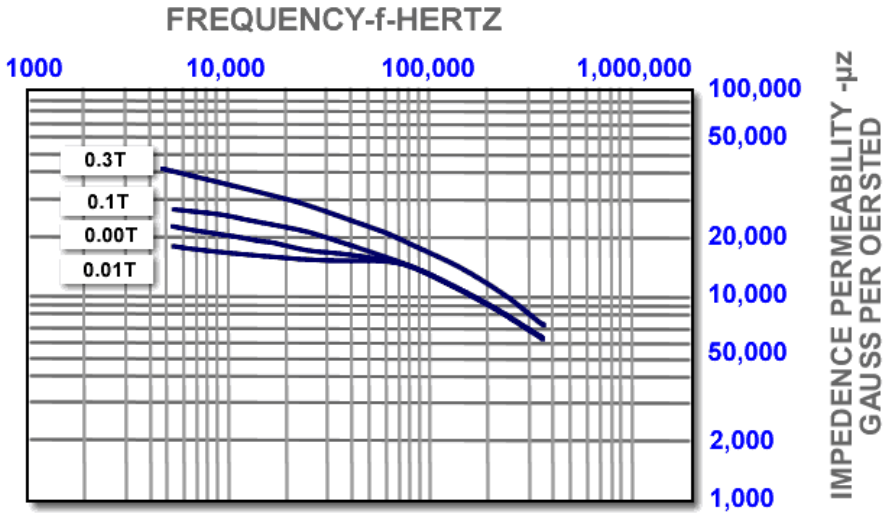
Benefits

- Near-zero magnetostriction
- High DC permeability at low fields without annealing
- High tensile strength

Typical DC Hysteresis Loop



Typical Impedance Permeability Curves, Longitudinal Field Anneal



Physical Properties

Density (g/cm^3)	7.80
Vicker's Hardness (50g load)	900
Tensil Strength (GPa)	1-2
Elastic Modulus (GPa)	100-110
Lamination Factor (%)	>75
Thermal Expansion (ppm/°C)	12.1
Crystallization Temperature (°C)	520
Continuous Service Temp. (°C)	90

Magnetic Properties

Saturation Induction (T)	0.77
Maximum D.C. Permeability (μ):	
Annealed	600,000
As Cast	290,000
Saturation Magnetostriction (ppm)	<0.5
Electrical Resistivity (μΩ.cm)	136
Curie Temperature (°C)	365

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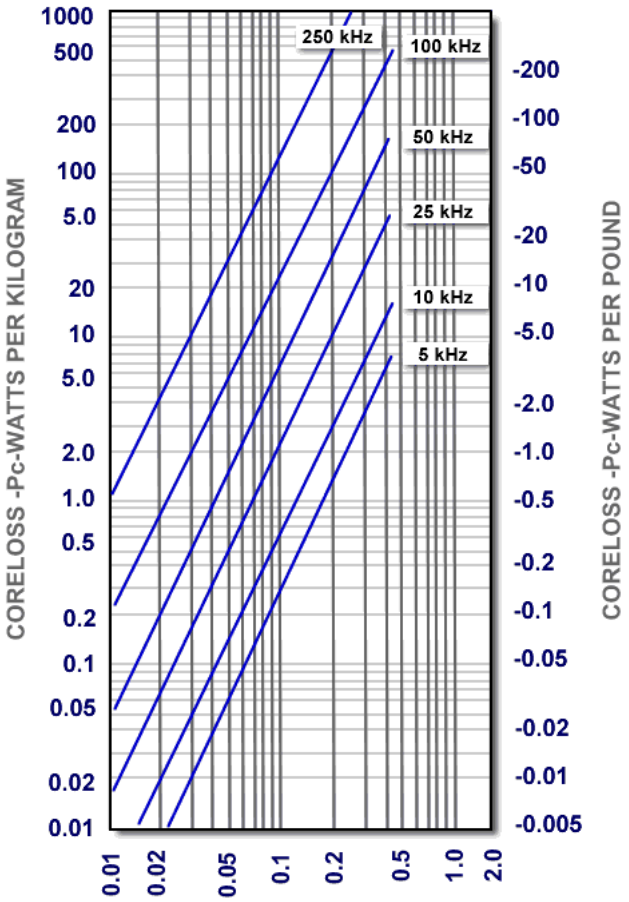
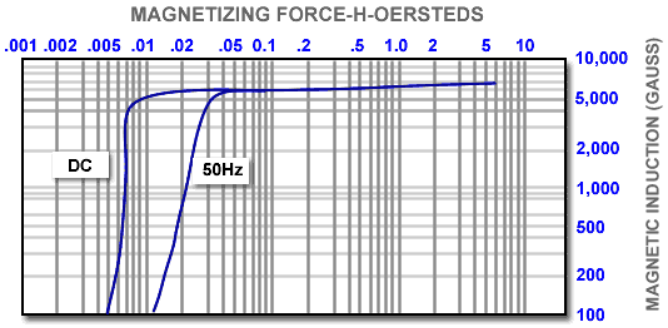
Typical Core Loss Curves Metglas Alloy 2705M



Typical Initial Magnetization Curves (as-cast) Metglas Alloy 2705M



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Notes :

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