

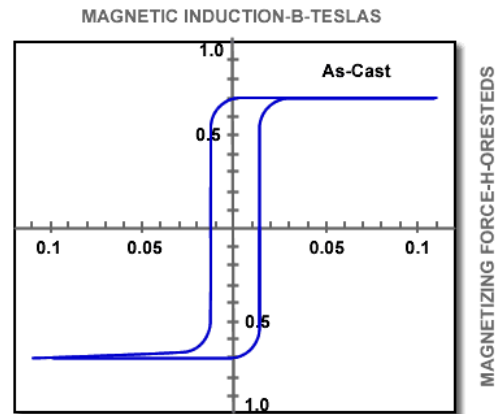
Applications

- Flexible electromagnetic shielding
- Magnetic sensors
- High frequency cores

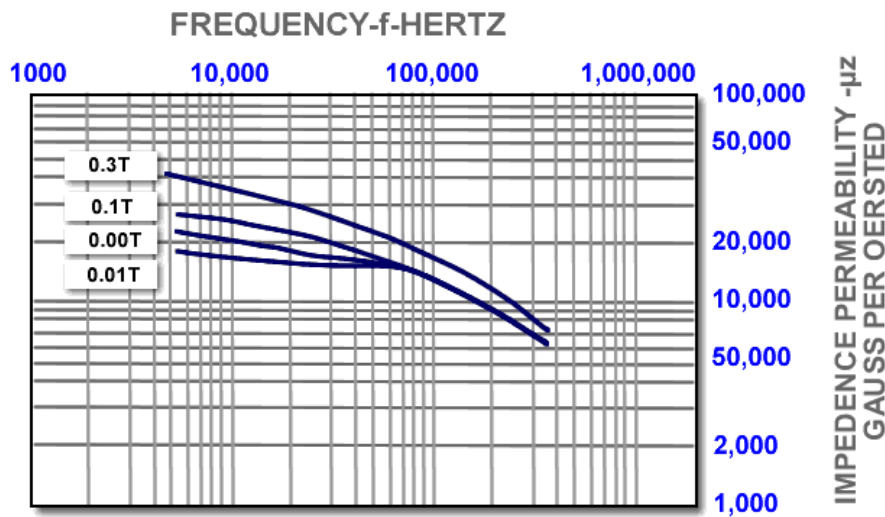
Benefits

- 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**



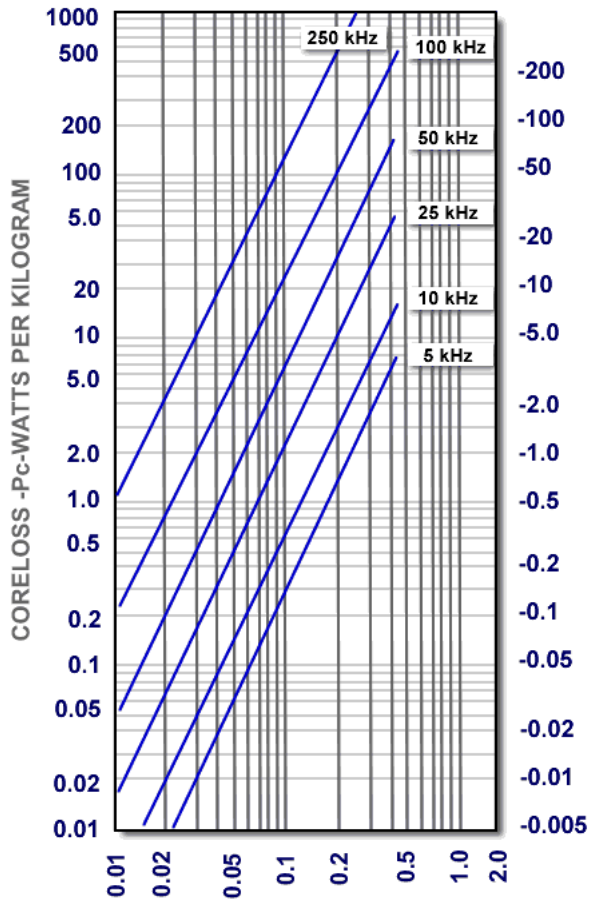
Physical Properties

Density (g/cm ³)	7.80
Vicker's Hardness (50g load)900
Tensile 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

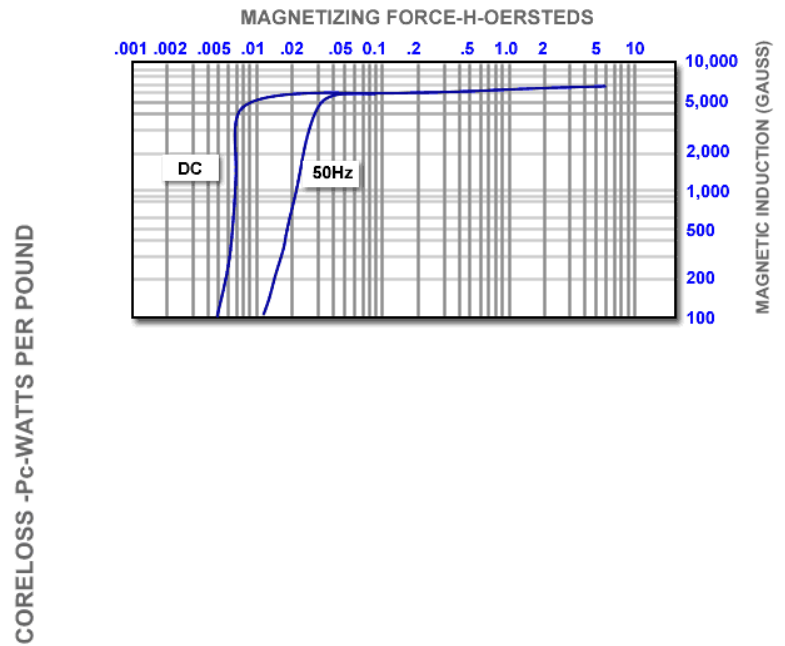
Magnetic Properties

Saturation Induction (T)0.77
Maximum D.C. Permeability (μ):	
Annealed600,000
As Cast	290,000
Saturation Magnetostriction (ppm)	<0.5
Electrical Resistivity (μΩ.cm)136
Curie Temperature (°C)365

**Typical Core Loss Curves
Metglas Alloy 2705M**



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



Notes :

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