Magnetic Alloy 2826MB (nickel-based)

Technical Bulletin

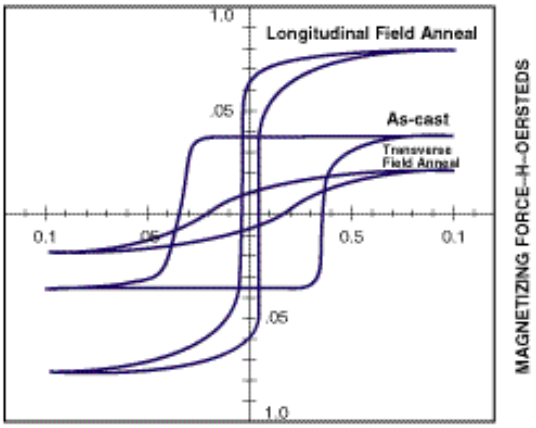
Applications

- Field sensors
- Shielding applications
- High frequency cores

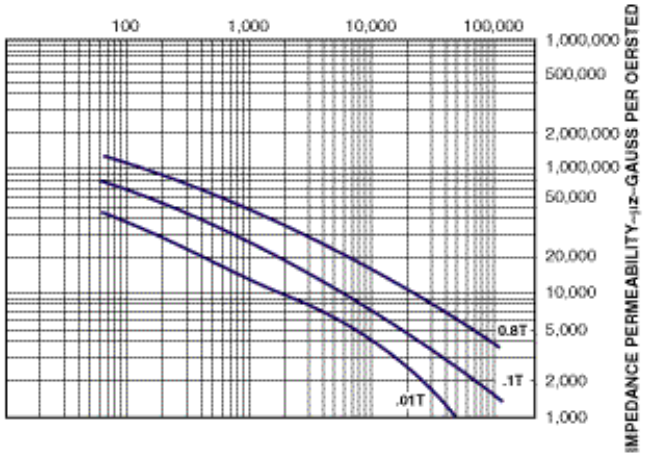
Benefits

- Medium saturation induction
- Lower magnetostriction
- Higher corrosion resistance
- Can be annealed for very high DC permeability, rounded or square B-H loops

Typical DC Hysteresis Loop



Typical Impedance Permeability Curves, No-Field Anneal



Physical Properties

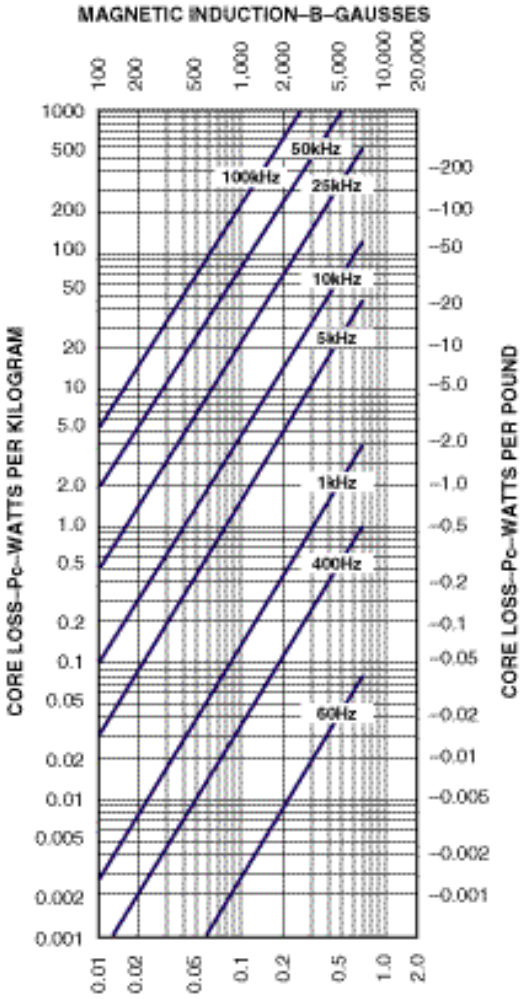
Density (g/cm^3)	7.90
Vicker's Hardness (50g load)	740
Tensil Strength (GPa)	1-2
Elastic Modulus (GPa)	100-110
Lamination Factor (%)	>75
Thermal Expansion (ppm/°C)	11.7
Crystallization Temperature (°C)	410
Continuous Service Temp. (°C)	125

Magnetic Properties

Saturation Induction (T)	0.88
Maximum D.C. Permeability (μ):	
Annealed	800,000
As Cast	>50,000
Saturation Magnetostriction (ppm)	12
Electrical Resistivity (μΩ.cm)	138
Curie Temperature (°C)	353

email: metglas@metglas.com
1-800-581-7654

Typical Core Loss Curves, Longitudinal Field Anneal
METGLAS Alloy 2826MB



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