

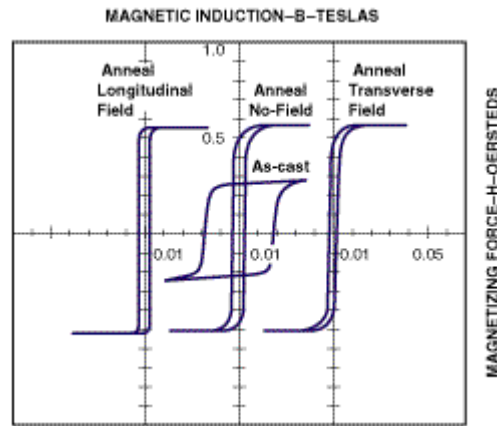
Applications

- Switch-mode power supply applications
- High frequency transformers
- High sensitivity matching transformers
- Ultra-sensitive current transformers
- Shielding
- Sensor applications

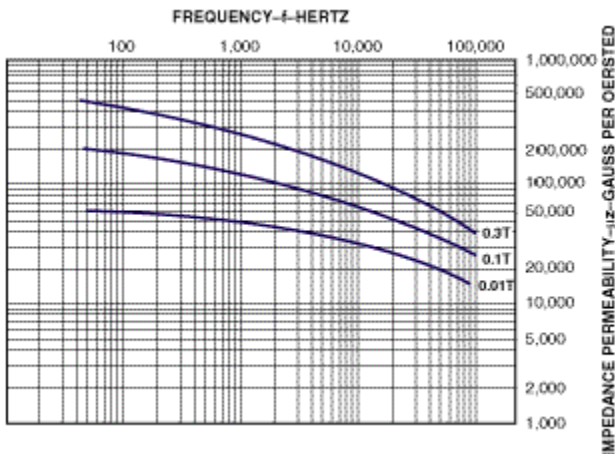
Benefits

- Extremely low core loss
- Ultra-high permeability
- High squareness ratio – low coercive force
- Near-zero magnetostriction
- Excellent corrosion resistance

Typical DC Hysteresis Loop



**Typical Impedance Permeability Curves,
No-Field Anneal**



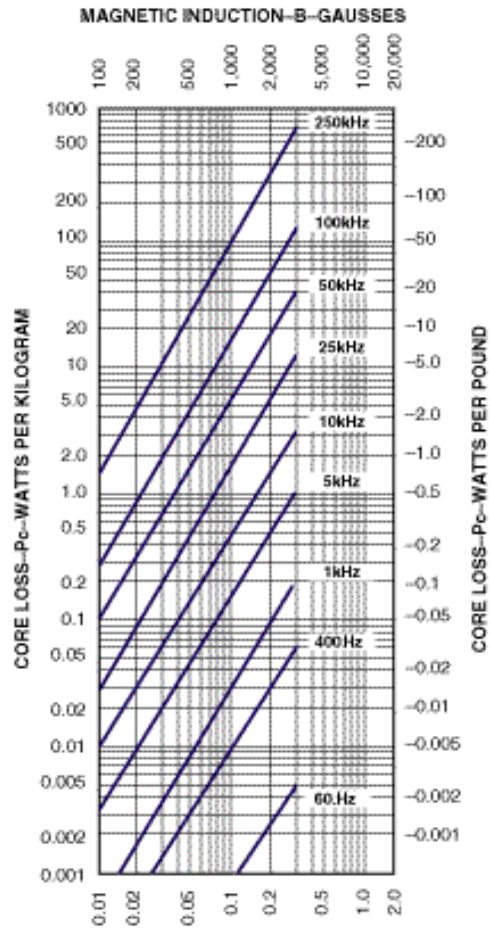
Physical Properties

Density (g/cm ³)	7.59
Vicker's Hardness (50g load)960
Tensile Strength (GPa)1-2
Elastic Modulus (GPa)	100-110
Lamination Factor (%)	>75
Thermal Expansion (ppm/°C)	12.7
Crystallization Temperature (°C)550
Continuous Service Temp. (°C)90

Magnetic Properties

Saturation Induction (T)057
Maximum D.C. Permeability (μ):	
Annealed	1,000,000
As Cast	>80,000
Saturation Magnetostriction (ppm)	<0.5
Electrical Resistivity (μΩ.cm)142
Curie Temperature (°C)225

**Typical Core Loss Curves
Metglas Alloy 2714A**



Notes :

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