

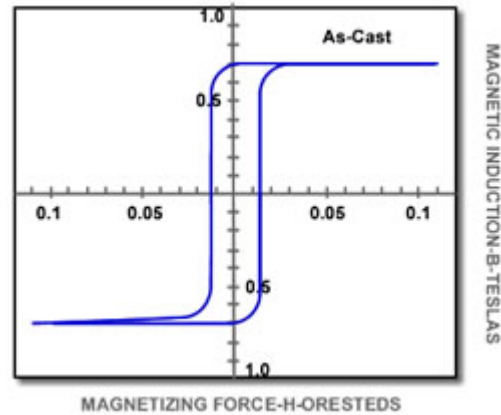
Applications

- Flexible electromagnetic shielding
- Magnetic sensors
- High frequency cores

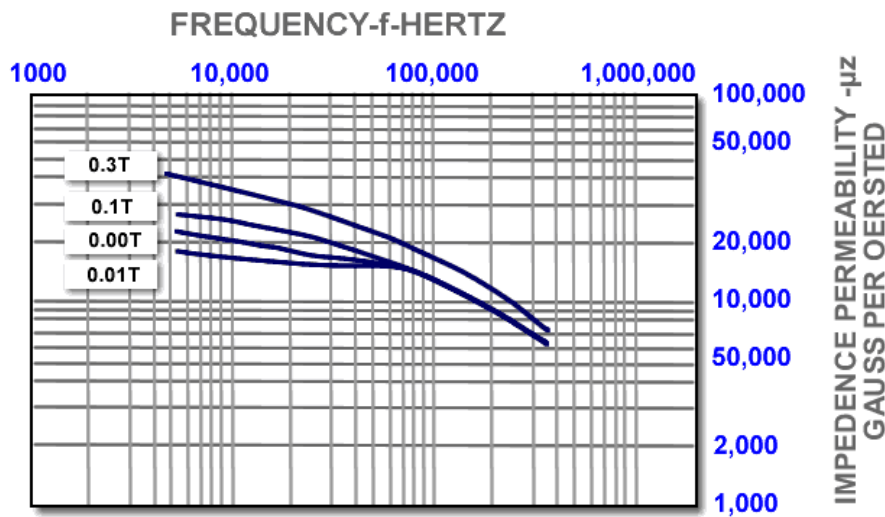
Benefits

- 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



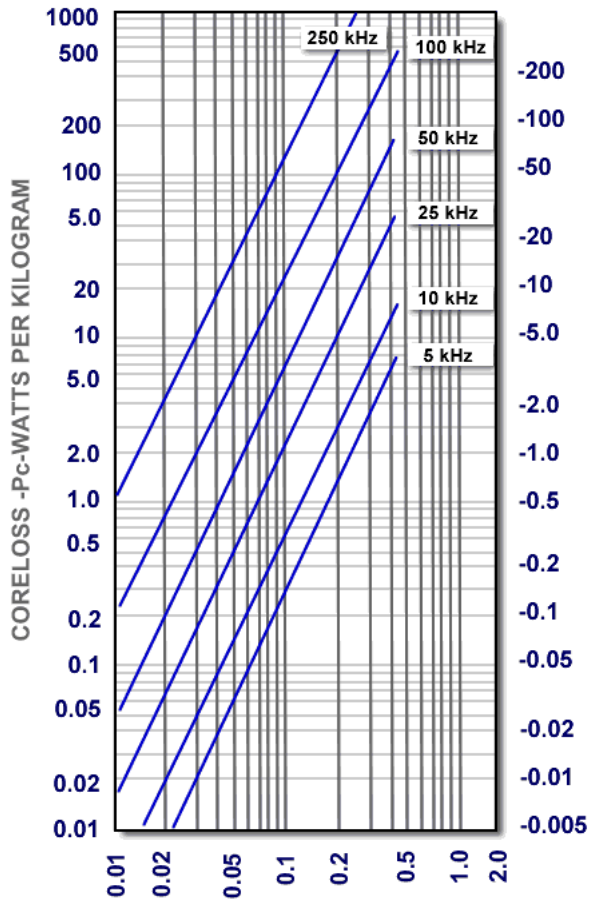
Physical Properties

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

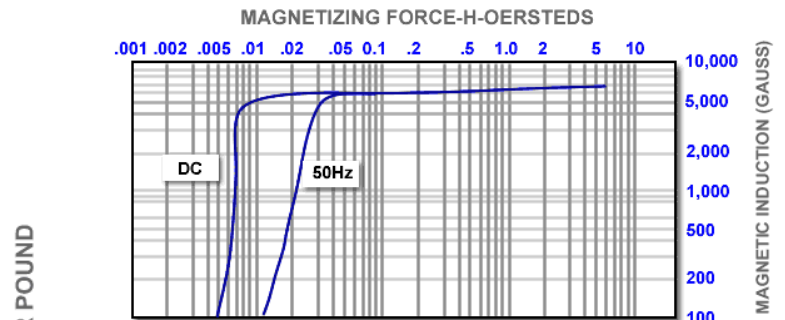
Magnetic Properties

Saturation Induction (T)	.0.77
Maximum D.C. Permeability (μ):	
Annealed	.600,000
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 :

Contact Information:

AMERICAS

Metglas[®], Inc.

440 Allied Drive
Conway, SC 29526

Tel: (800) 581-7654

Tel: (843) 349-7363

Fax: (843) 349-6815

ASIA

Hitachi Metals Hong Kong

Units 2212-14, 22/F.
Miramar Tower, 132 Nathan Road,
Tsimshatsui, Kowloon
Hong Kong

Tel: 852-27244183

Fax: 852-27227660

EUROPE

Hitachi Metals Europe

Immermannstrasse 14-16
D- 40210 Düsseldorf
Germany

Tel :49(0)211-16009-23

Fax:49(0)211-16009-30

