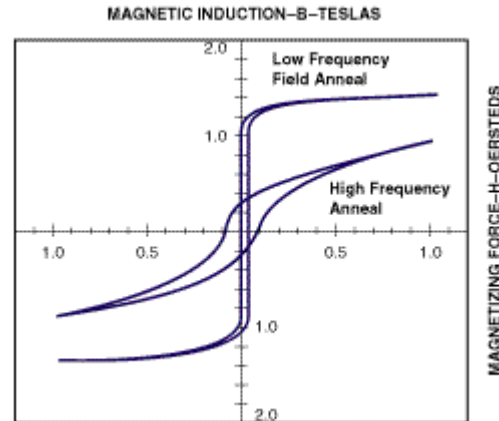


Applications

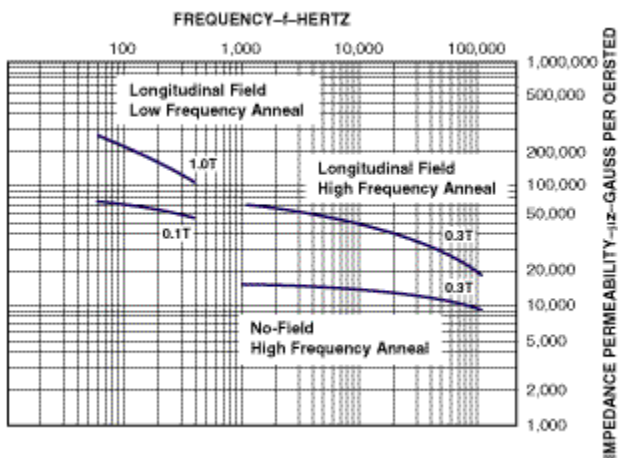
- Current transformers
- Ground fault protection devices
- High frequency cores

Benefits

- Low core loss at high frequencies (>1 kHz)
- High operating temperature with minimal flux density reduction
- Can be annealed for high permeability in low or high frequencies



Typical Impedance Permeability Curves, Various Field Anneal



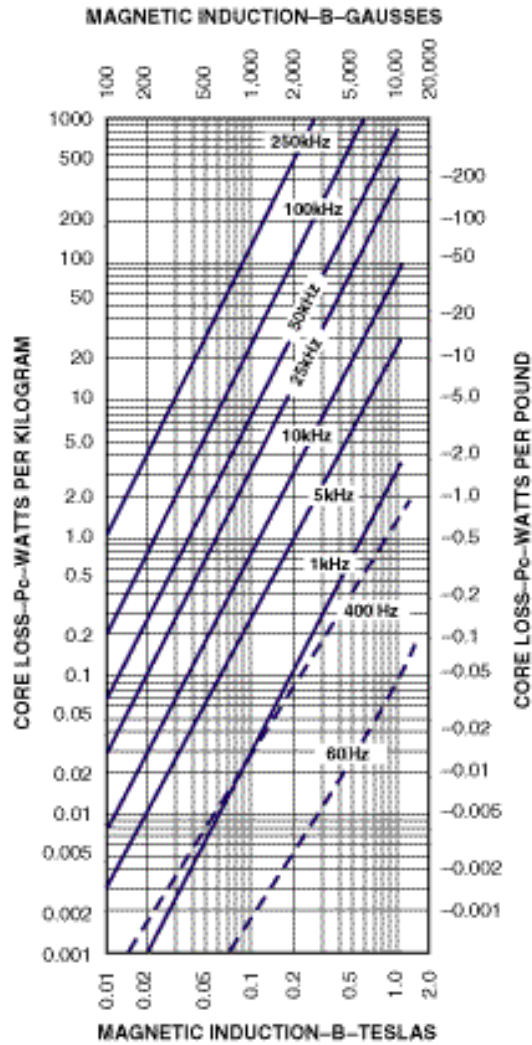
Physical Properties

Density (g/cm ³)	7.29
Vicker's Hardness (50g Load)	.860
Tensile Strength (GPa)	1-2
Elastic Modulus (GPa)	100-110
Lamination Factor (%)	>75
Thermal Expansion (ppm/°C)	6.7
Crystallization Temperature (°C)	535
Continuous Service Temp. (°C)	150

Magnetic Properties

Saturation Induction (T)	1.41
Maximum D.C. Permeability (μ):	
Annealed	35,000
As Cast	>20,000
Saturation Magnetostriction (ppm)	20
Electrical Resistivity (μ -cm)	138
Curie Temperature (°C)	358

**Typical Core Loss Curves, Longitudinal Field Anneal
METGLAS Alloy 2605S3A**



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