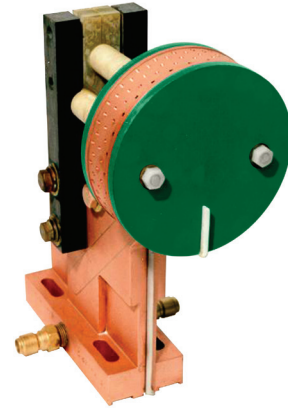




Low to Medium Frequency Soft Magnetic Composite [Frequency Range: up to 50 kHz]

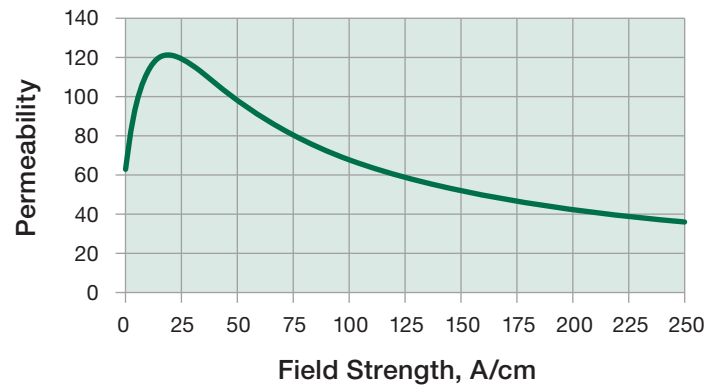
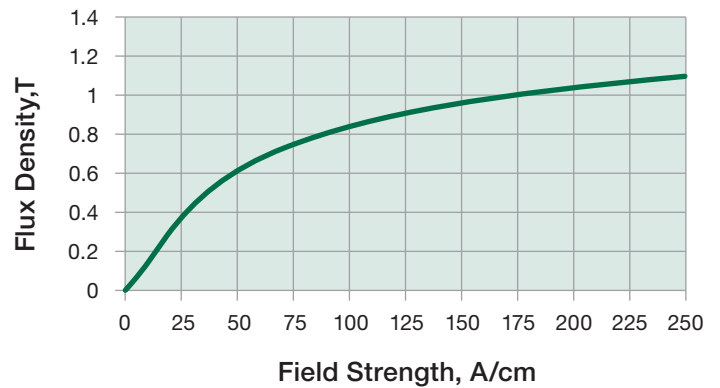
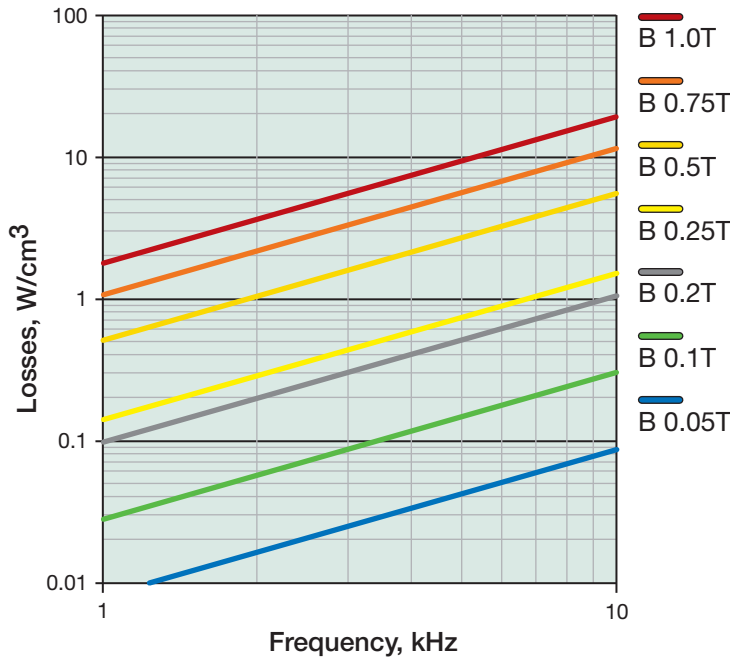
FLUXTROL A is a proven material made of electrically insulated iron particles and organic binder. It is designed for a wide range of frequencies up to 50 kHz. This material has significant anisotropy with best magnetic and thermal properties in direction perpendicular to the pressing direction. It has high thermal conductivity which allows it to handle high thermal loads. The properties below are given for the favorable direction.

Properties	Units	FLUXTROL A
Density ± 2%	g/cm ³	6.6
Initial Permeability	None	63
Maximum Permeability	None	120
Saturation Flux Density	T	1.6
Operating Frequency Range	kHz	up to 50
Major Frequency Range	kHz	3–30
Temperature Resistance	Centigrade	250 Long Term 300 Short Term
Thermal Conductivity	W/cm °C	0.2
Resistivity	kOhmcm	0.5



FLUXTROL A Losses

$$P_v = 1.78 f^{1.03} B^{1.8}, \text{ W/cm}^3; f, \text{ kHz}; B, \text{ T}$$



Each grade of Fluxtrol material has its own distinctive properties that are the most beneficial to certain application conditions, process type, coil design, frequency, etc. **Contact Fluxtrol or your local distributor for more information about which material is optimal for you.**

