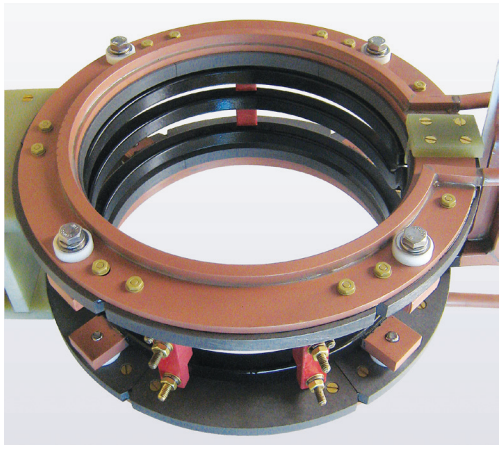
FERROTRON 559H

High Frequency Soft Magnetic Composite [Frequency Range: 10 – 3000 kHz]

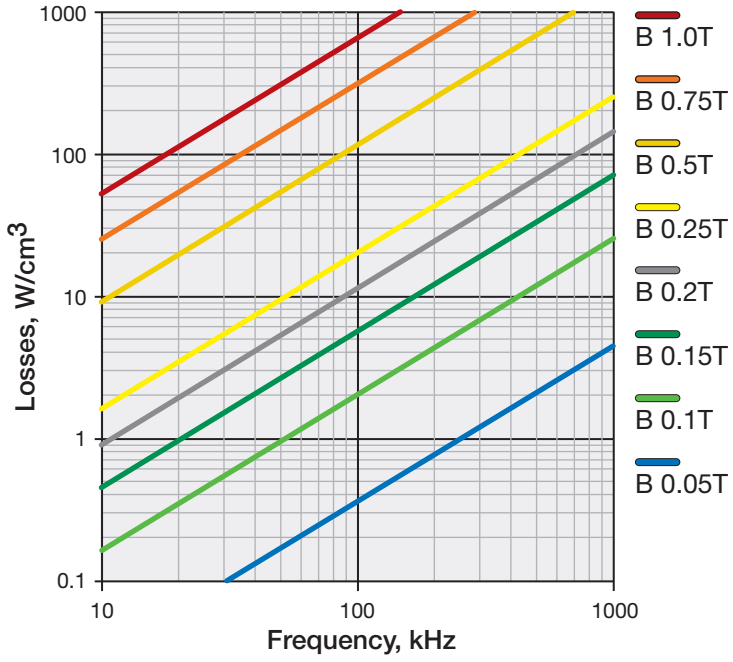
FERROTRON ***559H*** is a middle-to-high frequency material with organic binder. It has more binder by volume and therefore its permeability and thermal conductivity are lower. The binder works as lubricant in machining and the material has excellent machinability. Because of low thermal conductivity Ferrotron does not tolerate high thermal loadings. This material has very high electrical resistivity allowing us to consider it a dielectric material rather than metallic composite.

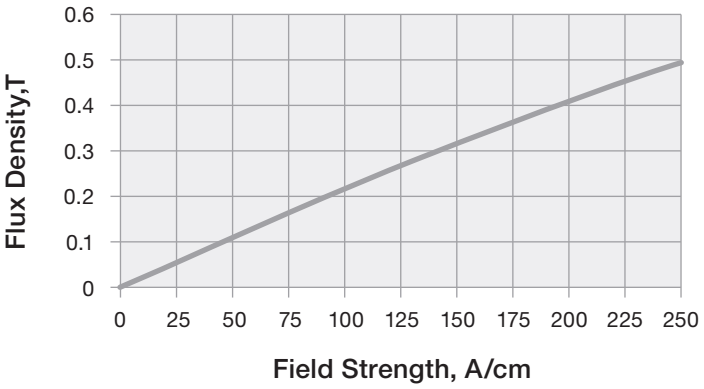
Properties	Units	FERROTRON *559H*
Density ± 2%	g/cm3	5.9
Initial Permeability	None	16
Maximum Permeability	None	18
Saturation Flux Density	T	0.9
Operating Frequency Range	kHz	10–3000
Major Frequency Range	kHz	50–1000
Temperature Resistance	Centigrade	250 Long Term 300 Short Term
Thermal Conductivity	W/cm °C	0.04
Resistivity	kOhmcm	>15

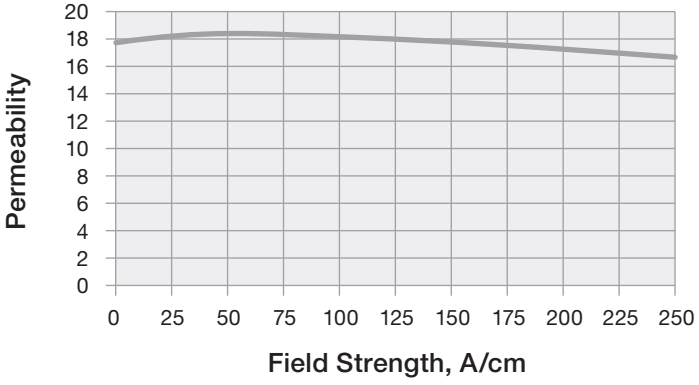


FLUXTROL ***559H*** Losses

$Pv=4.1\ f^{1.1}\ B^{2.5}$, W/cm^3; f, kHz; B,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.**

FLUXTROL 100 | FLUXTROL A | FLUXTROL 50 | ALPHAFORM LF | ALPHAFORM MF

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