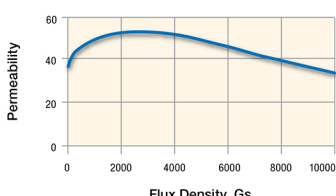
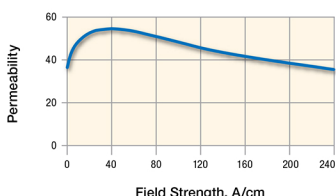
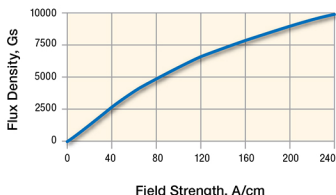


Medium to High Frequency Soft Magnetic Composite [Frequency Range: 10 – 1000 kHz]

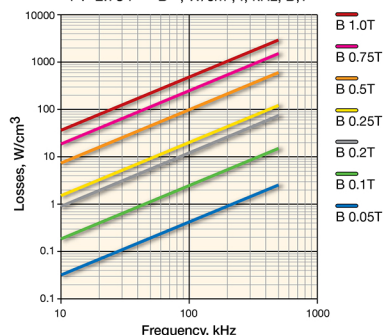
FLUXTROL 50 shows excellent performance over a wide range of frequencies. It has good machinability, high mechanical strength and permeability.

Properties	Units	FLUXTROL 50
Density ± 2%	g/cm <sup>3</sup>	6.1
Initial Permeability	None	36
Maximum Permeability	None	55
Saturation Flux Density	Gs	15,000
Operating Frequency Range	kHz	10–1000
Major Frequency Range	kHz	50–500
Temperature Resistance	Centigrade	250 Long Term 300 Short Term
Thermal Conductivity	W/cm °C	0.06
Resistivity	kOhmcm	0.5



### FLUXTROL 50 Losses

$$P_v = 2.73 f^{1.125} B^{2.3}, \text{ W/cm}^3; f, \text{ kHz}; B, T$$



Scan QR code to visit our website for more information on FLUXTROL 50 — Please Note: 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 for more information about which material is optimal for you.

- FLUXTROL 100
- FLUXTROL A
- FERROTRON 559H
- ALPHAFORM LF
- ALPHAFORM MF



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# FLUXTROL 50

Medium to High Frequency Soft Magnetic Composite [Frequency Range: 10 – 1000 kHz]

### RECTANGULAR BLOCKS

SIZE in INCHES	SIZE in MILLIMETERS
.25 x 1.00 x 4.00	6.3 x 25.4 x 101.5
.25 x 1.50 x 4.00	6.3 x 38.1 x 101.5
.50 x .50 x 4.00	12.7 x 12.7 x 101.5
.50 x .75 x 4.00	12.7 x 19.0 x 101.5
.50 x 1.00 x 4.00	12.7 x 25.4 x 101.5
.50 x 1.50 x 4.00	12.7 x 38.1 x 101.5
.63 x .63 x 4.00	16.0 x 16.0 x 101.5
.63 x .75 x 4.00	16.0 x 19.0 x 101.5
.63 x 1.00 x 4.00	16.0 x 25.4 x 101.5
.63 x 2.00 x 4.00	16.0 x 50.8 x 101.5
.75 x .75 x 4.00	19.0 x 19.0 x 101.5
.75 x 1.00 x 4.00	19.0 x 25.4 x 101.5
.75 x 1.50 x 4.00	19.0 x 38.1 x 101.5
.75 x 2.00 x 4.00	19.0 x 50.8 x 101.5
1.00 x 1.00 x 2.00	25.4 x 25.4 x 50.8
1.00 x 1.00 x 3.00	25.4 x 25.4 x 76.2
1.00 x 1.25 x 4.00	25.4 x 31.7 x 101.5
1.00 x 1.50 x 4.00	25.4 x 38.1 x 101.5
1.00 x 2.00 x 4.00	25.4 x 50.8 x 101.5
.25 x 3.12 x 8.75	6.3 x 79.2 x 222.2
.25 x 4.25 x 6.50	6.3 x 107.9 x 165.0
.25 x 6.50 x 8.75	6.3 x 165.0 x 222.2
.38 x 3.12 x 8.75	9.6 x 79.2 x 222.2
.38 x 4.25 x 6.50	9.6 x 107.9 x 165.0
.38 x 6.50 x 8.75	9.6 x 165.0 x 222.2
.50 x 4.25 x 6.50	12.7 x 107.9 x 165.0
.50 x 6.50 x 8.75	12.7 x 165.0 x 222.2
.63 x 4.25 x 6.50	16.0 x 107.9 x 165.0
.63 x 6.50 x 8.75	16.0 x 165.0 x 222.2
.75 x 3.12 x 8.75	19.0 x 79.2 x 222.2
.75 x 4.25 x 6.50	19.0 x 107.9 x 165.0
.75 x 6.50 x 8.75	19.0 x 165.0 x 222.2
.82 x 6.50 x 8.75	20.8 x 165.0 x 222.2
1.00 x 3.12 x 8.75	25.4 x 79.2 x 222.2
1.00 x 4.25 x 6.50	25.4 x 107.9 x 165.0
1.00 x 6.50 x 8.75	25.4 x 165.0 x 222.2

### ROUNDS / BILLETS

SIZE in INCHES		SIZE in MILLIMETERS	
.50 Ø x 2.00	3.50 Ø x 2.00	12.7 Ø x 50.8	89.0 Ø x 50.8
.67 Ø x 2.00	3.50 Ø x 2.50	17.0 Ø x 50.8	89.0 Ø x 63.5
.75 Ø x 2.00	4.00 Ø x .75	19.0 Ø x 50.8	101.5 Ø x 19.0
1.00 Ø x 2.00	4.00 Ø x 1.00	25.4 Ø x 50.8	101.5 Ø x 25.4
1.00 Ø x 3.00	4.00 Ø x 2.00	25.4 Ø x 76.2	101.5 Ø x 50.8
1.25 Ø x 2.00	4.50 Ø x 1.00	31.7 Ø x 50.8	114.3 Ø x 25.4
1.25 Ø x 3.00	4.50 Ø x 2.00	31.7 Ø x 76.2	114.3 Ø x 50.8
1.50 Ø x 2.00	5.00 Ø x .25	38.1 Ø x 50.8	127.0 Ø x 6.3
1.50 Ø x 3.00	5.00 Ø x .75	38.1 Ø x 76.2	127.0 Ø x 19.0
1.75 Ø x 2.00	5.00 Ø x 1.00	44.5 Ø x 50.8	127.0 Ø x 25.4
1.75 Ø x 3.00	5.00 Ø x 2.00	44.5 Ø x 76.2	127.0 Ø x 50.8
2.00 Ø x 2.00	5.50 Ø x 1.00	50.8 Ø x 50.8	140.0 Ø x 25.4
2.00 Ø x 3.00	5.50 Ø x 1.25	50.8 Ø x 76.2	140.0 Ø x 31.7
2.30 Ø x 2.00	5.50 Ø x 2.00	58.4 Ø x 50.8	140.0 Ø x 50.8
2.30 Ø x 3.00	6.00 Ø x .25	58.4 Ø x 76.2	152.4 Ø x 6.3
2.30 Ø x 5.12	6.00 Ø x .75	58.4 Ø x 130.0	152.4 Ø x 19.0
2.50 Ø x 2.00	6.00 Ø x 1.00	63.5 Ø x 50.8	152.4 Ø x 25.4
2.50 Ø x 2.50	6.00 Ø x 2.00	63.5 Ø x 63.5	152.4 Ø x 50.8
2.50 Ø x 3.00	6.50 Ø x .75	63.5 Ø x 76.2	165.1 Ø x 19.0
2.76 Ø x 2.00	6.50 Ø x 1.00	70.1 Ø x 50.8	165.1 Ø x 25.4
2.76 Ø x 3.00	8.00 Ø x .25	70.1 Ø x 76.2	203.2 Ø x 6.3
3.00 Ø x 1.00	8.00 Ø x .50	76.2 Ø x 25.4	203.2 Ø x 12.7
3.00 Ø x 2.00	8.00 Ø x .75	76.2 Ø x 50.8	203.2 Ø x 19.0
3.00 Ø x 2.50	8.00 Ø x 1.00	76.2 Ø x 63.5	203.2 Ø x 25.4
3.00 Ø x 3.00	8.00 Ø x 1.50	76.2 Ø x 76.2	203.2 Ø x 38.1
3.50 Ø x 1.00	8.00 Ø x 2.00	89.0 Ø x 25.4	203.2 Ø x 50.8



In addition to this broad range of standard sizes, we can manufacture custom sizes and shapes according to your requests. For price and delivery information and for custom size and/or machined parts, please contact Fluxtrol at 1.248.393.2000 or 1.800.224.5522.

- FLUXTROL 100
- FLUXTROL A
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