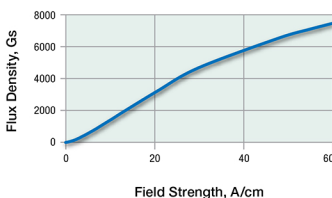


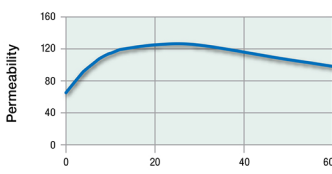
Low to Medium Frequency Soft Magnetic Composite [Frequency Range: up to 50 kHz]

This high permeability material demonstrates great performance in multiple applications. FLUXTROL A has a significant anisotropy with the best properties in the directions perpendicular to the pressing direction. The properties below are given for the favorable direction.

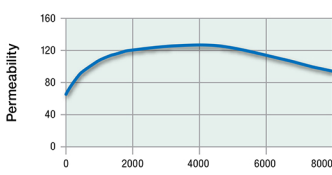
Properties	Units	FLUXTROL A
Density ± 2%	g/cm ³	6.6
Initial Permeability	None	63
Maximum Permeability	None	120
Saturation Flux Density	Gs	16,000
Operating Frequency Range	kHz	up to 50
Major Frequency Range	kHz	3–30
Temperature Resistance	Centigrade	250 Long Term 300 Short Term
Thermal Conductivity	W/cm °C	0.2
Resistivity	kOhmcm	0.5



Field Strength, A/cm



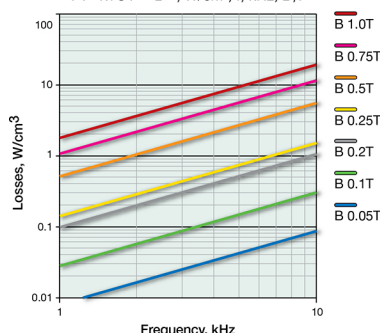
Field Strength, A/cm



Flux Density, Gs

FLUXTROL A Losses

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



Scan QR code to visit our website for more information on FLUXTROL A — 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 50
- FERROTRON 559H
- ALPHAFORM LF
- ALPHAFORM MF



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FLUXTROL A

Low to Medium Frequency Soft Magnetic Composite [Frequency Range: up to 50 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
.50 x 2.00 x 4.00	12.7 x 50.8 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 3.00	25.4 x 38.1 x 76.2
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
1.25 x 1.25 x 3.00	31.7 x 31.7 x 76.2
.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 3.12 x 8.75	12.7 x 79.2 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
1.00 x 3.12 x 8.75	25.4 x 107.9 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
.75 Ø x 2.00	3.50 Ø x 2.5	19.0 Ø x 50.8	89.0 Ø x 63.5
1.00 Ø x 2.00	4.00 Ø x .75	25.4 Ø x 50.8	101.5 Ø x 19.0
1.00 Ø x 3.00	4.00 Ø x 1.00	25.4 Ø x 76.2	101.5 Ø x 25.4
1.25 Ø x 2.00	4.00 Ø x 2.00	31.7 Ø x 50.8	101.5 Ø x 50.8
1.25 Ø x 3.00	4.50 Ø x 1.00	31.7 Ø x 76.2	114.3 Ø x 25.4
1.50 Ø x 2.00	4.50 Ø x 2.00	38.1 Ø x 50.8	114.3 Ø x 50.8
1.50 Ø x 3.00	5.00 Ø x .25	38.1 Ø x 76.2	127.0 Ø x 6.3
1.75 Ø x 2.00	5.00 Ø x .75	44.5 Ø x 50.8	127.0 Ø x 19.0
1.75 Ø x 3.00	5.00 Ø x 1.00	44.5 Ø x 76.2	127.0 Ø x 25.4
2.00 Ø x 2.00	5.00 Ø x 2.00	50.8 Ø x 50.8	127.0 Ø x 50.8
2.00 Ø x 3.00	5.50 Ø x 1.00	50.8 Ø x 76.2	140.0 Ø x 25.4
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 2.50	6.50 Ø x 2.00	70.1 Ø x 63.5	165.1 Ø x 50.8
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 1.25	8.00 Ø x .75	76.2 Ø x 31.7	203.2 Ø x 19.0
3.00 Ø x 2.00	8.00 Ø x 1.00	76.2 Ø x 50.8	203.2 Ø x 25.4
3.00 Ø x 2.50	8.00 Ø x 1.50	76.2 Ø x 63.5	203.2 Ø x 38.1
3.00 Ø x 3.00	8.00 Ø x 2.00	76.2 Ø x 76.2	203.2 Ø x 50.8
3.50 Ø x 1.00		89.0 Ø x 25.4	



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.

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