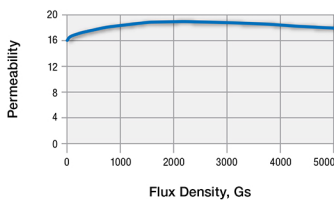
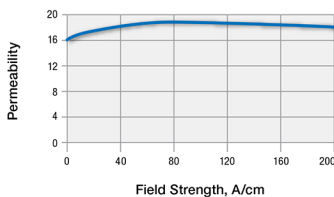
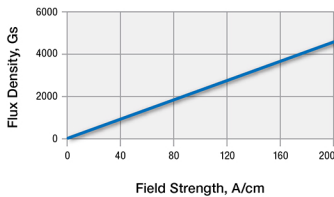


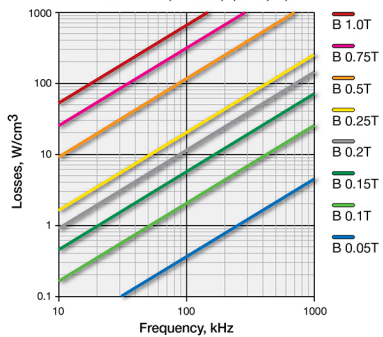
Proven flux concentrator performance with the highest electrical resistivity in the Fluxtrol family of soft magnetic materials. Almost constant magnetic permeability over a wide range of magnetic flux densities and frequencies. Material has excellent mechanical strength and machinability.

Properties	Units	FERROTRON 559H
Density ± 2%	g/cm ³	5.9
Initial Permeability	None	16
Maximum Permeability	None	18
Saturation Flux Density	Gs	10,000
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

$$P_v = 4.1 f^{1.1} B^{2.5}, \text{ W/cm}^3; f, \text{ kHz}; B, \text{ T}$$



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



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FERROTRON 559H



High Frequency Soft Magnetic Composite [Frequency Range: 10 – 3000 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
1.25 x 1.25 x 4.00	31.7 x 31.7 x 101.5
1.50 x 2.00 x 4.00	38.1 x 50.8 x 101.5
2.00 x 2.00 x 2.00	50.8 x 50.8 x 50.8
.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 3.12 x 8.75	16.0 x 79.2 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 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
.50 Ø x 2.50	3.50 Ø x 2.50	12.7 Ø x 63.5	89.0 Ø x 63.5
.67 Ø x 2.00	4.00 Ø x .75	17.0 Ø x 50.8	101.5 Ø x 19.0
.75 Ø x 2.00	4.00 Ø x 1.00	19.0 Ø x 50.8	101.5 Ø x 25.4
1.00 Ø x 2.00	4.00 Ø x 2.00	25.4 Ø x 50.8	101.5 Ø x 50.8
1.00 Ø x 3.00	4.50 Ø x 1.00	25.4 Ø x 76.2	114.3 Ø x 25.4
1.25 Ø x 2.00	4.50 Ø x 2.00	31.7 Ø x 50.8	114.3 Ø x 50.8
1.25 Ø x 3.00	5.00 Ø x .25	31.7 Ø x 76.2	127.0 Ø x 6.3
1.50 Ø x 2.00	5.00 Ø x .75	38.1 Ø x 50.8	127.0 Ø x 19.0
1.50 Ø x 3.00	5.00 Ø x 1.00	38.1 Ø x 76.2	127.0 Ø x 25.4
1.75 Ø x 2.00	5.00 Ø x 2.00	44.5 Ø x 50.8	127.0 Ø x 50.8
1.75 Ø x 3.00	5.50 Ø x 1.00	44.5 Ø x 76.2	140.0 Ø x 25.4
2.00 Ø x 2.00	5.50 Ø x 1.25	50.8 Ø x 50.8	140.0 Ø x 31.7
2.00 Ø x 3.00	5.50 Ø x 2.00	50.8 Ø x 76.2	140.0 Ø x 50.8
2.30 Ø x 2.00	6.00 Ø x .25	58.4 Ø x 50.8	152.4 Ø x 6.3
2.30 Ø x 2.50	6.00 Ø x .75	58.4 Ø x 63.5	152.4 Ø x 19.0
2.30 Ø x 3.00	6.00 Ø x 1.00	58.4 Ø x 76.2	152.4 Ø x 25.4
2.30 Ø x 5.12	6.00 Ø x 2.00	58.4 Ø x 130.0	152.4 Ø x 50.8
2.50 Ø x 2.00	6.50 Ø x .75	63.5 Ø x 50.8	165.1 Ø x 19.0
2.50 Ø x 2.50	6.50 Ø x 1.00	63.5 Ø x 63.5	165.1 Ø x 25.4
2.50 Ø x 3.00	6.50 Ø x 1.25	63.5 Ø x 76.2	165.1 Ø x 31.7
2.76 Ø x 2.00	6.50 Ø x 1.50	70.1 Ø x 50.8	165.1 Ø x 38.1
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 .75	70.1 Ø x 76.2	203.2 Ø x 19.0
3.00 Ø x 1.00	8.00 Ø x 1.00	76.2 Ø x 25.4	203.2 Ø x 25.4
3.00 Ø x 2.00	8.00 Ø x 1.50	76.2 Ø x 50.8	203.2 Ø x 38.1
3.00 Ø x 2.50	8.00 Ø x 1.75	76.2 Ø x 63.5	203.2 Ø x 44.5
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.

- FLUXTROL 100
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