

RAW MAGNET MATERIAL

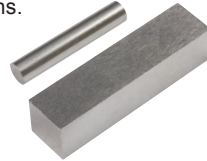


Alnico Magnet Material

Alnico magnets are made of Aluminum, Nickel and Cobalt (AlNiCo) offer **medium strength** and the best temperature characteristics of any standard magnet material. Alnico magnets have a medium resistance to demagnetization and are very hard and brittle. Machining or drilling cannot be accomplished by ordinary means.

Alnico Features

- Ideal for high heat applications
- Alnico 5 Magnet Material
- Maximum temperature 800°F (427°C)
- Tolerance ±0.005" on all dimensions



Alnico Rectangular Material

Hold - lbs (kg)	Th. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)	Model No.
0.75 (0.34)	0.25	0.25	1.00	0.01	ABAR025X025X100
2.0 (0.90)	0.375	0.375	1.50	0.05	ABAR037X037X150
4.5 (2.04)	0.50	0.50	2.00	0.15	ABAR050X050X200

Alnico Cylindrical Material

Hold - lbs (kg)	Dia. (in)	Ln. (in)	Wt. (lbs)	Model No.
0.75 (0.34)	0.1875	1.00	0.01	A5RC018X100
1.125 (0.51)	0.250	2.00	0.05	A5RC025X200
3.0 (1.36)	0.375	2.00	0.05	A5RC037X200
4.0 (1.81)	0.500	3.00	0.15	A5RC050X300
6.0 (2.72)	0.875	3.00	0.50	A5RC087X300

Alnico Rotor Magnets

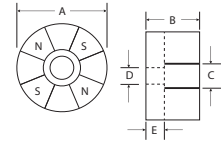


Alnico Rotor Magnet Features

- Constructed for difficult holding applications
- Especially effective on thin metal applications
- Heat resistance up to 800°F (427°C)
- Alnico 5 magnet material

Alnico Rotor Magnets

Hold - lbs	A (in)	B (in)	C (in)	D (in)	E (in)	Wt. (lbs)	No. of Poles	Model No.
16	1.00	0.75	0.50	0.26	0.25	0.10	4	5X11B
25	1.25	0.75	0.63	0.26	0.25	0.16	6	5H177
70	2.00	1.25	0.90	0.50	0.38	0.70	8	5X13B



Ceramic Magnet Material

Ceramic magnets are a non-metallic, non-conductive, hard, brittle material compound of iron oxide, Strontium Ferrite and small quantities of other metal oxides that can only be cut with a diamond wheel.

Ceramic Features

- Low cost, high energy material
- Performs best at temperatures below 480°F (249°C)
- Difficult to grind or drill, cannot be machined utilizing EDM
- Tolerance ±2% on O.D., Length & Width. ±.005" on Thickness



Ceramic Disc Material

Hold - lbs (kg)	Dia. (in)	Ln. (in)	Wt. (lbs)	Grade	Model No.
4.24 (1.92)	0.875	1.000	0.11	5	7/8DIA X 1C5

Ceramic Ring Material

Hold - lbs (kg)	O.D. (in)	I.D. (in)	Ln. (in)	Wt. (lbs)	Grade	Model No.
0.36 (0.16)	0.750	0.271	0.250	0.022	8	F1409
0.75 (0.34)	1.230	0.885	0.431	0.044	8	F1407
0.84 (0.38)	1.623	0.705	0.187	0.040	8	F1406
3.5 (1.58)	1.723	0.705	0.250	0.082	8	F1405
9.5 (4.31)	2.800	1.203	0.590	0.466	8	F10006
5.5 (2.49)	2.825	1.250	0.330	0.600	8	431005
20.5 (9.30)	5.250	2.312	0.750	2.408	8	455005

Ceramic Rectangular Material

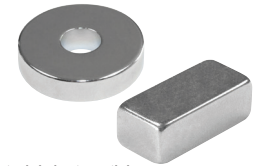
Hold - lbs (kg)	Th. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)	Grade	Model No.
6.0 (2.72)	0.375	0.875	1.875	0.11	8	5C458
5.0 (2.26)	0.250	1	2	0.10	8	250X1X2C8
7.0 (3.17)	0.500	1	2	0.15	8	500X1X2C8
9.0 (4.08)	0.750	1	2	0.25	8	750X1X2C8
11.0 (4.99)	1.000	1	2	0.35	8	1X1X2C8
15.0 (6.80)	1.000	2	2	0.70	8	1X2X2C8
6.5 (2.95)	0.187	4	4	0.75	8	187X4X4C5
8.5 (3.85)	0.250	4	6	1.00	8	250X4X6C5
8.0 (3.62)	0.312	4	4	0.83	8	312X4X4C5
10.5 (4.76)	0.375	4	4	1.00	8	375X4X4C5
14.0 (6.35)	0.500	4	6	2.00	8	500X4X6C8
18.5 (8.39)	0.750	4	6	3.00	8	750X4X6C5
23.5 (10.66)	1.000	4	6	4.00	8	1X4X6C8

Rare Earth Magnet Material

Rare Earth Neodymium-Iron-Boron (NdFeB) magnets are commonly referred to as Neo. This magnet material provides the **highest magnetic strength** of any magnet material, very high resistance to demagnetization and is ideal for applications requiring maximum strength in a limited area. Neo is usually coated or plated to prevent oxidization, therefore, avoid grinding.

Neodymium Features

- Extremely powerful magnet
- Ideal for miniaturized applications
- Operates best at temperatures below 180°F (82°C)
- High resistance to demagnetization
- Nickel plated finish
- Tolerance ±0.005" on all dimensions



NOTE: Avoid grinding, as flash fires may occur from rare earth material dust particles. Crystalline structured material is easily chipped, cracked or broken.

Rare Earth Ring Material

Hold - lbs (kg)	O.D. (in)	I.D. (in)	Ln. (in)	Wt. (lbs)	Model No.
0.2 (0.09)	0.250	0.060	0.060	0.002	NE250060060NP35
4.2 (1.91)	0.365	0.200	0.250	0.001	NE365200250NP35
2.0 (0.90)	0.375	0.136	0.100	0.001	NE375136100NP35
9.63 (4.37)	0.750	0.125	0.125	0.600	NE751212NP42
8.60 (3.90)	0.750	Counter Sink #8 Screw	0.125	0.600	NE7512CSNP42
19.0 (8.62)	0.875	0.275	0.200	0.050	NE875275200NP35
12.39 (5.62)	1.000	0.1975	0.125	0.070	NE101912NP42
20.28 (9.20)	1.500	0.125	0.125	0.080	NE151212NP42

Rare Earth Rectangular Material

Hold - lbs (kg)	Th. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)	Model No.
23.25 (10.54)	0.187	1.000	1.500	0.100	NEO 3/16 RECTNP
28.17 (12.78)	0.1875	1.000	1.500	0.100	NE181510NP42
21.0 (9.53)	0.250	0.500	2.000	0.070	NE2550200NP35
30.0 (13.61)	0.250	1.000	2.000	0.140	NE25100200NP35
6.0 (2.72)	0.340	0.250	0.750	0.018	NE342575NP35

Rare Earth Square Material

Hold - lbs (kg)	Th. (in)	Wd. (in)	Ln. (in)	Wt. (lbs)	Model No.
4.25 (1.93)	0.100	0.250	0.250	0.001	NE012525NP35
7.34 (3.33)	0.125	0.500	0.500	0.009	NE010505NP42
18.0 (8.16)	0.500	0.500	0.500	0.030	NE505050NP35
14.58 (6.61)	0.125	1.000	1.000	0.034	NE011010NP42
23.29 (10.56)	0.125	1.500	1.500	0.076	NE011515NP42
16.0 (7.26)	0.250	0.750	0.750	0.040	NE257575NP35
45.0 (20.41)	0.500	1.000	1.000	0.030	NE50100100NP35