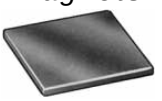
Rare Earth Magnets

For information about magnets, see page 3152.

Bonded Neodymium-Iron-Boron Magnets

Disc

Ring



Rectangular

The magnetic material is bonded into an epoxy which can be easily machined.

Disc Magnets

Max. Pull, lbs.	Dia.	Thick.		Each
0.3	0.080″	0.197″	5902K41	$1.61
0.3	0.118″	0.138″	5902K43	2.14
0.3	0.197″	0.080″	5902K47	1.53
0.3	0.236″	0.080″	5902K52	1.46
0.6	0.080″	0.394″	5902K42	1.77
0.6	0.118″	0.275″	5902K44	2.01
0.6	0.197″	0.157″	5902K48	1.73
0.7	0.236″	0.157″	5902K53	2.08
0.7	0.335″	0.118″	5902K55	2.33
0.8	0.157″	0.275″	5902K45	2.22
1.0	0.197″	0.275″	5902K49	2.24
1.1	0.157″	0.394″	5902K46	2.60
1.3	0.591″	0.118″	5902K61	5.95
1.4	0.197″	0.394″	5902K51	2.49
1.4	0.394″	0.197″	5902K56	$6.24
1.7	0.236″	0.394″	5902K54	3.52
1.8	0.492″	0.197″	5902K58	7.70
2.1	0.591″	0.197″	5902K62	8.44
2.9	0.394″	0.394″	5902K57	8.11
2.9	0.787″	0.197″	5902K65	10.62
3.3	0.591″	0.303″	5902K63	10.55
3.6	0.492″	0.394″	5902K59	10.40
3.6	0.984″	0.197″	5902K68	15.62
4.3	0.591″	0.394″	5902K64	10.76
4.4	0.787″	0.303″	5902K66	15.62
5.7	0.787″	0.394″	5902K67	16.20
7.2	0.984″	0.394″	5902K69	20.44

Ring Magnets

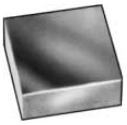
Max. Pull, lbs.	OD	ID	Thick.		Each
0.6	1.023″	0.866″	0.197″	5901K71	$8.60
1.1	1.023″	0.866″	0.394″	5901K72	10.55
2.0	1.181″	0.630″	0.197″	5901K73	15.86
2.0	1.378″	0.827″	0.197″	5901K75	16.10
4.0	1.181″	0.630″	0.394″	5901K74	21.48
4.0	1.378″	0.827″	0.394″	5901K76	28.40

Rectangular Magnets

Max. Pull, lbs.	Lg.	Wd.	Thick.		Each
1.1	0.394″	0.197″	0.197″	5903K61	$3.19
1.5	0.807″	0.303″	0.150″	5903K62	7.68
1.5	1.969″	0.394″	0.080″	5903K67	9.46
2.0	1.181″	1.181″	0.080″	5903K64	10.80
2.8	0.807″	0.303″	0.275″	5903K63	10.13
3.6	1.969″	0.394″	0.197″	5903K68	16.13
4.8	1.181″	1.181″	0.197″	5903K65	20.33
7.2	1.969″	0.394″	0.394″	5903K69	21.05
8.7	1.969″	0.394″	0.472″	5903K71	24.07
9.7	1.969″	1.181″	0.394″	5903K66	36.23
10.2	1.969″	1.969″	0.248″	5903K72	42.76
20.5	1.969″	1.969″	1/2″	5903K73	64.89
30.7	1.969″	1.969″	0.748″	5903K74	97.34
40.4	1.969″	1.969″	0.984″	5903K75	129.78

Samarium-Cobalt Magnets

Disc



Square

Size	Thick.	Type 1-5 Max. Pull, lbs.		Each	Type 2-17 Max. Pull, lbs.		Each
Disc Magnets							
1/8″ dia.	1/8″	0.33	5716K61	$4.43			
1/4″ dia.	0.100″	0.6	5716K63	5.74	2.8	5768K21	$5.52
1/2″ dia.	0.190″	4.0	5716K66	10.40	5.0	5768K22	10.80
3/4″ dia.	0.285″	8.0	5716K67	22.86	10.0	5768K23	41.19
1″ dia.	3/8″	14.0	5716K68	40.90	16.0	5768K24	44.65
Square Magnets							
1/4″ sq.	0.100″	1.0	5715K32	9.83	1.5	5767K51	11.50
1/2″ sq.	0.210″	5.0	5715K34	17.23	6.5	5767K52	18.50
3/4″ sq.	0.320″	9.0	5715K36	49.00	10.5	5767K53	51.00
1″ sq.	0.425″	16.0	5715K37	77.40	17.5	5767K54	81.70
2″ sq.	1/2″	65.0	5715K38	197.00	71.0	5767K56	208.65

Samarium-Cobalt Pot Magnets

The samarium-cobalt magnetic material is encircled by a brass separator and encased in a precision-ground steel pot to concentrate maximum magnetic energy on one face of the magnet.

Max. Pull, lbs.	Dia.	Thick.		Each
0.67	**0.39″**	**0.31″**	57325K81	$14.00
11.2	0.71″	0.31″	57325K86	26.67
20.2	0.98″	0.39″	57325K93	42.89

Neodymium-Iron-Boron Grade 37 Magnets

Disc

Square

Max. Pull, lbs.	Size	Thick.		Each
Disc Magnets				
0.63	1/8″ dia.	1/8″	5862K51	$7.49
1.49	1/4″ dia.	0.100″	5862K52	7.91
1.49	1/4″ dia.	0.100″	58605K31★	8.43
3.0	1/4″ dia.	1/8″	58605K33★	8.54
3.5	1/4″ dia.	1/4″	58605K35	9.14
4.74	3/8″ dia.	1/4″	5862K55	14.91
5.72	1/2″ dia.	0.190″	5862K53	12.66
7.0	1/2″ dia.	1/4″	58605K37	13.29
15.0	7/8″ dia.	3/8″	58605K41	13.83
10.0	1″ dia.	1/8″	58605K43	17.40
14.0	1″ dia.	1/4″	58605K45	41.77
50.0	3″ dia.	1/4″	58605K47	111.91
Square Magnets				
1.75	1/4″ sq.	0.100″	5848K31	12.71
7.3	1/2″ sq.	0.210″	5848K32	14.14
16.62	3/4″ sq.	0.320″	5848K33	51.25
23.0	1″ sq.	3/8″	58585K61	56.25
27.0	1″ sq.	1/2″	58585K63	71.50
37.0	2″ sq.	1/4″	58585K67	88.00
46.0	2″ sq.	3/8″	58585K69	99.03
69.0	2″ sq.	1/2″	5848K34	134.00
75.0	2″ sq.	1″	58585K71	189.08

★ Nickel plated.

Neodymium-Iron-Boron Pot Magnets

Two Pole

The power of neodymium, the highest energy density of all magnets, in a force-concentrating pot design, focusing all the magnetic strength in the smallest possible space. ***Round magnets*** are encircled by a brass separator and encased in a steel pot. They have a tapped mounting hole on the bottom. ***Rectangular magnets*** are encased in epoxy and have an aluminum pot (except as noted).

Round Magnets

Max. Pull, lbs.	Dia.	Thick.	Hole Size		Each
One Pole					
5.0	3/8″	1/2″	8-32	5679K11	$21.77
10.0	1/2″	1/2″	10-24	5679K13	22.42
20.0	3/4″	1/2″	10-24	5679K15	32.65
30.0	1″	1/2″	1/4″-20	5679K17	37.96
38.0	1″	3/4″	1/4″-20	5679K19	52.92
40.0	1 1/4″	1/2″	1/4″-20	5679K21	53.19
Two Pole					
5.5	1/2″	0.45″	M5×5	5867K69	18.41
14.3	5/8″	0.61″	M6×5	5867K73	20.13
28.6	7/8″	0.81″	M6×6	5867K77	27.19
36.0	3/4″	1 3/16″	1/4″-20	5867K82	76.90
52.8	1″	0.99″	M6×6	5867K79	37.19
85.0	1″	1 5/16″	1/4″-20	5867K83	94.76
120.0	1 1/4″	1 5/16″	1/4″-20	5867K85	117.18
205.0	1 1/2″	2 1/16″	5/16″-18	5867K87	142.82
345.0	2″	2 7/16″	3/8″-16	5867K89	168.44

Rectangular Magnets

Max. Pull, lbs.	Lg.	Wd..	Thick.		Each
One Pole					
87.0	3 1/4″	1 3/8″	3/8″	5681K31▲	$58.75
Two Pole					
185.0	4 1/2″	1″	1 1/4″	5681K33	70.08
215.0	4 1/2″	1 1/4″	1 1/4″	5681K35	76.04
Three Pole					
340.0	4 1/2″	1 7/8″	1 1/4″	5681K37	108.25

▲ Mounted in a steel channel, not potted.

Warning! *"Max. Pull, lbs." ratings are based on ideal conditions. Variations in iron content, thickness, and surface finish and condition will all reduce these ratings. Do not use for lifting over people.*