

Common applications

DC and servo motors • Linear actuators • Magnetic separators • Speakers • Microphone assemblies • Sensors

Machining and tolerances

Neodymium (we like to call it "Neo") is easily ground, although coolants must be used in the process to avoid spontaneous combustion of powder. Grinding should be completed before coating or plating is applied to protect the magnets from corrosion. Standard tolerances for Neo magnets are +/- .005" for ground dimensions.

Temperature constraints and methods of magnetization

The temperature coefficient of Neo has triggered the development of several new grades that meet specific and more demanding operating requirements. Please request (or view online at www.adamsmagnetic.com) our complete chart of magnetic properties to compare the characteristics of each grade. Before choosing a Neo magnet be sure to consider your application's maximum operating temperature.

Magnetization: Neo magnets require extremely high magnetizing fields and particular consideration must be given to this when designing complex assemblies. Neo can be magnetized in any direction if properly aligned. In some instances multiple pole magnetization is not possible; when it is possible, special fixtures are required.

Added value services

Our knowledgeable engineering department is always available to assist you in determining the best grade and size of neodymium magnet for your application. We also offer coating and plating choices for magnets we custom-machine.

Call ADAMS for everything magnetic!
1-800-763-4795



Notes: Dimensions are in inches. Direction of magnetization is through the thickness for all items listed. Many other sizes, shapes and magnetization types are available. Please call us if you don't see what you're looking for in this brief listing. 1-800-763-4795

Rings

OD	ID	Thickness	Grade	Plating	Item#
0.230	0.100	0.250	3017	none	50A0038
0.250	0.060	0.060	3512	nickel	50A0076
0.365	0.200	0.250	3512	nickel	50A0036
0.375	0.136	0.100	3514	nickel	50A0073
0.500	0.136	0.060	3512	none	50A0037
0.875	0.275	0.200	3512	nickel	50A0071
0.866	0.354	0.393	3514	nickel	50A0085
3.000	1.650	0.500	3012	nickel	50A0049

Rectangles and Squares

Thickness	Width	Length	Grade	Plating	Lbs. Pull	Item#
0.060	0.240	0.750	3512	nickel	1.8	50C0189
0.060	0.375	0.375	3512	nickel	1.7	50C0311
0.100	0.250	0.250	3512	nickel	2.0	50C0338
0.190	0.150	0.150	3020	none	1.2	50C0194
0.250	0.125	0.125	3020	nickel	1.2	50C0151
0.250	0.500	0.750	3512	zinc	9.0	50C0080
0.250	0.750	0.750	3512	none	17.0	50C0233
0.500	1.000	1.000	3520	nickel	40.0	50C0327
0.500	2.000	2.000	4512	nickel	100.0	50C0159

Discs and Rods

Diameter	Length	Grade	Plating	Lbs. Pull	Item#
0.095	0.100	3012	zinc	0.3	50B0001
0.120	0.060	3017	nickel	0.4	50B0002
0.120	0.120	3512	nickel	0.7	50B0078
0.187	0.060	3012	nickel	0.7	50B0154
0.187	0.125	3012	nickel	1.2	50B0104
0.187	0.350	3014	nickel	1.6	50R0095
0.187	0.625	3514	nickel	2.0	50R0053
0.248	0.200	3014	nickel	2.3	50B0219
0.250	0.100	3512	nickel	1.8	50B0376
0.250	0.125	3012	nickel	1.8	50B0091
0.250	0.200	3012	nickel	2.3	50B0008
0.250	0.250	3512	nickel	3.0	50B0115
0.250	0.375	3514	nickel	3.4	50R0037
0.250	0.500	3017	nickel	3.6	50R0020
0.375	0.060	3512	nickel	1.5	50B0389
0.375	0.100	3020	nickel	2.3	50B0215
0.375	0.125	3512	nickel	3.5	50B0155
0.375	0.250	3020	nickel	4.8	50B0186
0.375	0.500	3512	nickel	7.5	50R0078
0.500	0.060	3012	nickel	1.5	50B0069
0.500	0.125	3017	zinc	3.9	50B0249
0.500	0.125	3512	nickel	4.7	50B0149
0.500	0.250	3512	nickel	8.6	50B0132
0.500	0.375	3512	nickel	10.9	50B0368
0.500	0.500	3512	nickel	12.3	50B0395
0.625	0.060	3014	nickel	1.7	50B0292
0.625	0.375	3512	nickel	15.2	50B0114
0.750	0.060	3512	nickel	2.2	50B0324
0.750	0.125	3512	nickel	6.5	50B0238
0.750	0.375	3512	nickel	19.5	50B0379
0.875	0.500	3512	none	28.9	50B0031
0.875	1.000	4512	nickel	39.0	50R0055
1.000	0.060	4512	nickel	2.4	50B0321
1.000	0.125	3514	nickel	7.8	50B0253
1.000	0.250	3514	nickel	18.9	50B0058