

# RAW MAGNET MATERIAL - RARE EARTH



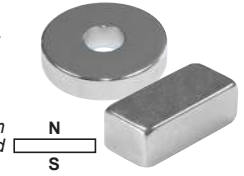
## RARE EARTH MAGNET MATERIAL

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.

### Features

- Operates best at temperatures below 180°F (82°C)
- 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				CS	35 MgO		42 MgO	
O.D. (in)	I.D. (in)	Length (in)	Weight (lbs)		Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.
0.250	0.060	0.060	0.0002		0.2 (0.09)	NE250060060NP35	-	-
0.365	0.200	0.250	0.001		4.2 (1.91)	NE365200250NP35	-	-
0.375	0.136	0.100	0.001		2.0 (0.90)	NE375136100NP35	-	-
0.750	0.125	0.125	0.600		-	-	9.63 (4.37)	NE751212NP42
0.750	0.186	0.125	0.600	#8	-	-	8.60 (3.90)	NE7512CSNP42
1.000	0.186	0.125	0.800	#8	-	-	12.6 (5.72)	NE10012CSNP42
0.875	0.275	0.200	0.050		19.0 (8.62)	NE875275200NP35	-	-
1.000	0.1975	0.125	0.070		-	-	12.39 (5.62)	NE101912NP42
1.500	0.125	0.125	0.080		-	-	20.28 (9.20)	NE151212NP42

Rare Earth Rectangular Material				CS	35 MgO		42 MgO	
Thickness (in)	Width (in)	Length (in)	Weight (lbs)		Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.
0.125	0.500	1.000	0.018	#4	-	-	12.0 (5.44)	NE010510CSNP42
0.125	0.500	1.000	0.018		-	-	12.8 (5.81)	NE010510NP42
0.187	1.000	1.500	0.100		-	-	34.0 (15.42)	NEO 3/16 RECTNP
0.1875	1.000	1.500	0.100		-	-	28.0 (12.70)	NE181510NP42
0.250	0.500	2.000	0.070		21.0 (9.53)	NE2550200NP35	-	-
0.250	1.000	2.000	0.140		30.0 (13.61)	NE25100200NP35	-	-
0.340	0.250	0.750	0.018		6.0 (2.72)	NE342575NP35	-	-

Rare Earth Square Material				CS	35 MgO		42 MgO	
Thickness (in)	Width (in)	Length (in)	Weight (lbs)		Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.
0.100	0.250	0.250	0.001		4.25 (1.93)	NE012525NP35	-	-
0.125	0.500	0.500	0.009		-	-	9.0 (4.08)	NE010505NP42
0.125	0.750	0.750	0.020	#8	-	-	11.4 (5.17)	NE017575CSNP42
0.500	0.500	0.500	0.030		18.0 (8.16)	NE505050NP35	-	-
0.125	1.000	1.000	0.034		-	-	18.0 (8.16)	NE011010NP42
0.125	1.500	1.500	0.076		-	-	28.0 (12.70)	NE011515NP42
0.250	0.750	0.750	0.040		16.0 (7.26)	NE257575NP35	-	-
0.500	1.000	1.000	0.030		45.0 (20.41)	NE50100100NP35	-	-

Rare Earth Cylindrical Material			35 MgO		42 MgO		52 MgO	
Diameter (in)	Length (in)	Weight (lbs)	Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.	Hold - lbs (kg)	Model No.
0.120	0.060	0.0002	0.2 (0.09)	NE1206NP35	-	-	-	-
0.120	0.250	0.0002	0.3 (0.13)	NE1225NP35	-	-	-	-
0.120	0.500	0.0004	0.6 (0.27)	NE1250NP35	-	-	-	-
0.187	0.060	0.0004	0.6 (0.27)	NE1806NP35	-	-	-	-
0.220	0.100	0.001	1.0 (0.45)	NE2210NP35	-	-	-	-
0.220	0.250	0.003	1.5 (0.68)	NE2225NP35	-	-	-	-
0.220	0.500	0.007	1.8 (0.81)	NE2250NP35	-	-	-	-
0.250	0.100	0.001	1.0 (0.45)	NE2510NP35	-	-	-	-
0.250	0.125	0.002	1.2 (0.54)	NE2512NP35	2.3 (1.04)	NE2512NP42	-	-
0.250	0.187	0.002	1.5 (0.68)	NE2518NP35	-	-	-	-
0.250	0.200	0.003	1.7 (0.77)	NE2520NP35	3.07 (1.39)	NE2520NP42	-	-
0.250	0.250	0.003	1.8 (0.81)	NE2525NP35	3.35 (1.52)	NE2525NP42	-	-
0.250	0.500	0.007	2.1 (0.95)	NE2550NP35	3.87 (1.76)	NE2550NP42	-	-
0.310	0.060	0.006	1.3 (0.59)	NE3106NP35	-	-	-	-
0.320	0.250	0.006	3.1 (1.40)	NE3225NP35	-	-	-	-
0.375	0.060	0.002	1.6 (0.73)	NE3706NP35	-	-	-	-
0.375	0.100	0.003	2.0 (0.90)	NE3710NP35	-	-	-	-
0.375	0.125	0.004	2.6 (1.18)	NE3712NP35	-	-	-	-
0.375	0.187	0.006	4.5 (2.04)	NE3718NP35	-	-	-	-
0.375	0.200	0.006	4.5 (2.04)	NE3720NP35	-	-	-	-
0.375	0.250	0.007	4.6 (2.08)	NE3725NP35	6.86 (3.11)	NE3725NP42	-	-
0.375	0.375	0.011	5.7 (2.58)	NE3737NP35	7.96 (3.61)	NE3737NP42	-	-
0.375	0.500	0.015	6.7 (3.04)	NE3750NP35	8.5 (3.86)	NE3750NP42	10.5 (4.76)	NE3750NP52
0.500	0.060	0.003	3.0 (1.36)	NE5006NP35	-	-	3.8 (1.72)	NE5006NP52
0.500	0.125	0.007	4.0 (1.81)	NE5012NP35	6.08 (2.76)	NE5012NP42	7.90 (3.58)	NE5012NP52
0.500	0.187	0.010	5.7 (2.58)	NE5018NP35	7.50 (3.40)	NE5018NP42	-	-
0.500	0.200	0.010	6.0 (2.72)	NE5020NP35	9.49 (4.30)	NE5020NP42	11.7 (5.31)	NE5020NP52
0.500	0.250	0.013	6.5 (2.94)	NE5025NP35	10.88 (4.94)	NE5025NP42	13.4 (6.08)	NE5025NP52
0.500	0.375	0.020	8.9 (4.03)	NE5037NP35	-	-	-	-
0.500	0.500	0.026	11.2 (5.08)	NE5050NP35	14.66 (6.65)	NE5050NP42	18.0 (8.16)	NE5050NP52
0.750	0.060	0.020	3.2 (1.45)	NE7506NP35	4.95 (2.25)	NE7506NP42	-	-
0.750	0.125	0.060	-	-	9.76 (4.43)	NE7512NP42	-	-
0.750	0.187	0.060	12.5 (5.67)	NE7518NP35	-	-	-	-
0.750	0.250	0.026	15.3 (6.94)	NE7525NP35	-	-	-	-
0.750	0.375	0.030	20.0 (9.07)	NE7537NP35	24.0 (10.89)	NE7537NP42	29.7 (13.47)	NE7537NP52
0.750	0.500	0.045	22.0 (9.98)	NE7550NP35	-	-	-	-
1.000	0.062	0.013	-	-	6.80 (3.08)	NE10006NP42	8.40 (3.81)	NE10006NP52
1.000	0.125	0.028	-	-	12.60 (5.72)	NE10012NP42	15.6 (7.08)	NE10012NP52
1.000	0.187	0.040	-	-	22.45 (10.18)	NE10018NP42	27.8 (12.61)	NE10018NP52
1.500	0.125	0.070	-	-	20.37 (9.24)	NE15012NP42	25.0 (11.34)	NE15012NP52