

# Nd-Fe-B

Grade	Maximum Energy Product	Residual Induction	Minimum Intrinsic Coercivity	Coercivity	Maximum Operating Temp	Curie Temp	Coefficient Induction 20-150 °C	Coefficient Coercivity 20-150 °C
	BH <sub>max</sub> kJ/m <sup>3</sup>	Br mT	H <sub>ci</sub> kA/m	H <sub>c</sub> kA/m	T <sub>mo</sub> °C	T <sub>c</sub> °C	α %/°C	β %/°C
N5211	413.8	1450	875.3	843.5	50	310	-0.12	-0.65
N5011	397.9	1430	875.3	843.5	50	310	-0.12	-0.63
N4811	382.0	1390	875.3	843.5	50	310	-0.12	-0.63
N4511	358.1	1360	875.3	835.6	50	310	-0.12	-0.63
N4812	382.0	1400	954.9	907.2	80	310	-0.12	-0.63
N4512	358.1	1350	954.9	899.2	80	310	-0.12	-0.63
N4212	334.2	1300	954.9	891.3	80	310	-0.12	-0.63
N4012	318.3	1280	954.9	883.3	80	310	-0.12	-0.63
N3812	302.4	1240	954.9	867.4	80	310	-0.12	-0.63
N3512	278.5	1200	954.9	859.4	80	310	-0.12	-0.63
N5014	397.9	1420	1114.1	1002.7	80	310	-0.12	-0.63
N4814	382.0	1390	1114.1	986.8	80	310	-0.12	-0.63
N4514	358.1	1360	1114.1	978.8	80	310	-0.12	-0.63
N4214	334.2	1310	1114.1	962.9	80	310	-0.12	-0.63
N4014	318.3	1280	1114.1	939.0	80	310	-0.12	-0.63
N3814	302.4	1240	1114.1	915.1	80	310	-0.12	-0.63
N3514	278.5	1200	1114.1	899.2	80	310	-0.12	-0.63
N3314	262.6	1160	1114.1	867.4	80	310	-0.12	-0.63
N4816	382.0	1380	1273.2	1026.5	100	320	-0.11	-0.61
N4516	358.1	1370	1273.2	1018.6	100	320	-0.11	-0.61
N4216	334.2	1310	1273.2	986.8	100	320	-0.11	-0.61
N3616	286.5	1220	1273.2	923.1	100	320	-0.11	-0.61
N3116	246.7	1140	1273.2	867.4	100	320	-0.11	-0.61
N4517	358.1	1340	1352.8	1010.6	120	320	-0.11	-0.6
N4217	334.2	1300	1352.8	986.8	120	320	-0.11	-0.6
N4017	318.3	1280	1352.8	978.8	120	320	-0.11	-0.6
N3817	302.4	1240	1352.8	947.0	120	320	-0.11	-0.6
N3517	278.5	1200	1352.8	915.1	120	320	-0.11	-0.6
N3317	262.6	1160	1352.8	891.3	120	320	-0.11	-0.6
N3017	238.7	1100	1352.8	843.5	120	320	-0.11	-0.6
N2717	214.9	1040	1352.8	803.7	120	320	-0.11	-0.6
N4520	358.1	1350	1591.5	1034.5	150	330	-0.11	-0.58
N4220	334.2	1300	1591.5	994.7	150	330	-0.11	-0.58
N4020	318.3	1280	1591.5	986.8	150	330	-0.11	-0.58
N3820	302.4	1240	1591.5	954.9	150	330	-0.11	-0.58
N3520	278.5	1200	1591.5	923.1	150	330	-0.11	-0.58
N3320	262.6	1160	1591.5	899.2	150	330	-0.11	-0.58
N3020	238.7	1110	1591.5	859.4	150	330	-0.11	-0.58
N2720	214.9	1040	1591.5	803.7	150	330	-0.11	-0.58
N4221	334.2	1300	1671.1	994.7	150	330	-0.11	-0.55
N4021	318.3	1280	1671.1	986.8	150	330	-0.11	-0.55
N3821	302.4	1260	1671.1	978.8	150	330	-0.11	-0.55
N3521	278.5	1190	1671.1	915.1	150	330	-0.11	-0.55

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# Nd-Fe-B

<b>N3021</b>	238.7	1110	1671.1	859.4	150	330	-0.11	-0.55
<b>N4025</b>	318.3	1260	1989.4	970.8	180	340	-0.1	-0.55
<b>N3825</b>	302.4	1250	1989.4	970.8	180	340	-0.1	-0.55
<b>N3525</b>	278.5	1200	1989.4	923.1	180	340	-0.1	-0.55
<b>N3325</b>	262.6	1160	1989.4	899.2	180	340	-0.1	-0.55
<b>N3025</b>	238.7	1110	1989.4	859.4	180	340	-0.1	-0.55
<b>N2825</b>	222.8	1060	1989.4	827.6	180	340	-0.1	-0.55
<b>N3828</b>	302.4	1250	2228.2	970.8	190	340	-0.1	-0.55
<b>N3328</b>	262.6	1170	2228.2	907.2	200	340	-0.1	-0.55
<b>N3830</b>	302.4	1250	2387.3	970.8	200	360	-0.08	-0.55
<b>N3530</b>	278.5	1200	2387.3	931.1	200	360	-0.08	-0.55
<b>N3330</b>	262.6	1160	2387.3	907.2	200	360	-0.08	-0.55
<b>N3030</b>	238.7	1100	2387.3	851.5	200	360	-0.08	-0.55
<b>N2830</b>	222.8	1070	2387.3	835.6	200	360	-0.08	-0.55
<b>N3333</b>	262.6	1190	2626.0	915.1	220	370	-0.1	-0.45
<b>N3033</b>	238.7	1140	2626.0	883.3	220	370	-0.09	-0.45
<b>N2833</b>	222.8	1090	2626.0	835.6	225	370	-0.09	-0.45
<b>N3235</b>	254.6	1130	2785.2	875.3	180	340	-0.1	-0.42

# Nd-Fe-B

<b>Typical Physical Properties</b>	
Curie Temperature	320 – 380 °C
Coefficient of Thermal Expansion - Perpendicular	-1.0 – -3.0 x 10 <sup>-6</sup> °C <sup>-1</sup>
Coefficient of Thermal Expansion - Parallel	+5.0 – +8.0 x 10 <sup>-6</sup> °C <sup>-1</sup>
Electrical Resistivity	120 – 160 μΩ·cm
Density	7.4 – 7.8 g·cm <sup>-3</sup>
Vicker's Hardness	550 – 650 H <sub>v</sub>
Young's Modulus	150 – 170 kN·mm <sup>-2</sup>
Bending Strength	0.18 – 0.29 kN·mm <sup>-2</sup>
Compressive Strength	0.8 – 1.0 kN·mm <sup>-2</sup>