Conventional NdFeB Magnetic Properties

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No.	Grade	Br T	Hcb kA/m	Hcj kA/m	(BH)max kJ/m³	Br kGs	Hcb kOe	Hcj kOe	(BH)max MGOe	Max working temperature °C
1	N35	1.18-1.23	≥876	≥955	263-287	11.8-12.3	≥11.0	≥12.0	33-36	80
2	N38	1.23-1.26	≥876	≥955	287-310	12.3-12.6	≥11.0	≥12.0	36-39	80
3	N40	1.26-1.29	≥876	≥955	302-326	12.6-12.9	≥11.0	≥12.0	38-41	80
4	N42	1.29-1.33	≥876	≥955	318-342	12.9-13.3	≥11.0	≥12.0	40-43	80
5	N45	1.33-1.37	≥876	≥955	342-366	13.3-13.7	≥11.0	≥12.0	43-46	80
6	N48	1.37-1.41	≥876	≥955	358-390	13.7-14.1	≥11.0	≥12.0	45-49	80
7	N50	1.40-1.44	≥876	≥955	374-406	14.0-14.4	≥11.0	≥12.0	47-51	80
8	N52	1.42-1.46	≥876	≥955	390-422	14.2-14.6	≥11.0	≥12.0	49-53	80
9	N54	1.45-1.50	≥876	≥955	406-438	14.5-15.0	≥11.0	≥12.0	51-55	80
10	N56	1.47-1.52	≥876	≥955	414-446	14.7-15.2	≥11.0	≥12.0	52-56	80
11	N58	1.51-1.56	≥836	≥876	422-462	15.1-15.6	≥10.5	≥11.0	53-58	70
12	N60	1.53-1.58	≥836	≥876	438-478	15.3-15.8	≥10.5	≥11.0	55-60	70
13	N35M	1.18-1.23	≥892	≥1114	263-287	11.8-12.3	≥11.2	≥14.0	33-36	100
14	N38M	1.23-1.26	≥915	≥1114	287-310	12.3-12.6	≥11.5	≥14.0	36-39	100
15	N40M	1.26-1.29	≥939	≥1114	302-326	12.6-12.9	≥11.8	≥14.0	38-41	100
16	N42M	1.29-1.33	≥955	≥1114	318-342	12.9-13.3	≥12.0	≥14.0	40-43	100
17	N45M	1.33-1.37	≥971	≥1114	342-366	13.3-13.7	≥12.2	≥14.0	43-46	100
18	N48M	1.37-1.41	≥1011	≥1114	358-390	13.7-14.1	≥12.7	≥14.0	45-49	100
19	N50M	1.40-1.44	≥1035	≥1114	374-406	14.0-14.4	≥13.0	≥14.0	47-51	100
20	N52M	1.42-1.46	≥1051	≥1114	390-422	14.2-14.6	≥13.2	≥14.0	49-53	100
21	N54M	1.45-1.50	≥1075	≥1114	406-438	14.5-15.0	≥13.5	≥14.0	51-55	100
22	N56M	1.47-1.52	≥995	≥1035	414-446	14.7-15.2	≥12.5	≥13.0	52-56	90
23	N58M	1.50-1.55	≥995	≥1035	422-462	15.0-15.5	≥12.5	≥13.0	53-58	90
24	N33H	1.14-1.18	≥860	≥1353	247-271	11.4-11.8	≥10.8	≥17.0	31-34	120
25	N35H	1.18-1.23	≥876	≥1353	263-287	11.8-12.3	≥11.0	≥17.0	33-36	120
26	N38H	1.23-1.26	≥915	≥1353	287-310	12.3-12.6	≥11.5	≥17.0	36-39	120

Temperature condition: L/D = 0.7, typical. Maximum working temperature depends on magnet geometry, dimensions, magnetic circuit and operating conditions; do not infer it solely from the grade suffix.

PDF-series values are retained. Source versions differ for N54H, N56H and N48UH. The paired Hcb units for N56H conflict and remain uncorrected pending clarification.

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Conventional NdFeB Magnetic Properties

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No.	Grade	Br T	Hcb kA/m	Hcj kA/m	(BH)max kJ/m³	Br kGs	Hcb kOe	Hcj kOe	(BH)max MGOe	Max working temperature °C
27	N40H	1.26-1.29	≥939	≥1353	302-326	12.6-12.9	≥11.8	≥17.0	38-41	120
28	N42H	1.29-1.33	≥971	≥1353	318-342	12.9-13.3	≥12.2	≥17.0	40-43	120
29	N45H	1.33-1.37	≥1003	≥1353	342-366	13.3-13.7	≥12.6	≥17.0	43-46	120
30	N48H	1.37-1.41	≥1019	≥1353	358-390	13.7-14.1	≥12.8	≥17.0	45-49	120
31	N50H	1.40-1.44	≥1035	≥1353	374-406	14.0-14.4	≥13.0	≥17.0	47-51	120
32	N52H	1.42-1.46	≥1051	≥1353	390-422	14.2-14.6	≥13.2	≥17.0	49-53	120
33	N54H	1.44-1.50	≥1067	≥1353	406-438	14.4-15.0	≥13.4	≥17.0	51-55	120
34	N56H	1.46-1.51	≥1098	≥1274	414-446	14.6-15.1	≥13.6	≥16.0	52-56	110
35	N30SH	1.09-1.15	≥820	≥1592	223-247	10.9-11.5	≥10.3	≥20.0	28-31	150
36	N33SH	1.14-1.18	≥852	≥1592	247-271	11.4-11.8	≥10.7	≥20.0	31-34	150
37	N35SH	1.18-1.23	≥884	≥1592	263-287	11.8-12.3	≥11.1	≥20.0	33-36	150
38	N38SH	1.23-1.26	≥923	≥1592	287-310	12.3-12.6	≥11.6	≥20.0	36-39	150
39	N40SH	1.26-1.29	≥939	≥1592	302-326	12.6-12.9	≥11.8	≥20.0	38-41	150
40	N42SH	1.29-1.33	≥971	≥1592	318-342	12.9-13.3	≥12.2	≥20.0	40-43	150
41	N45SH	1.33-1.37	≥1003	≥1592	342-366	13.3-13.7	≥12.6	≥20.0	43-46	150
42	N48SH	1.37-1.41	≥1019	≥1592	358-390	13.7-14.1	≥12.8	≥20.0	45-49	150
43	N50SH	1.39-1.43	≥1035	≥1592	374-406	13.9-14.3	≥13.0	≥20.0	47-51	150
44	N52SH	1.42-1.46	≥1051	≥1512	390-422	14.2-14.6	≥13.2	≥19.0	49-53	140
45	N35SHT	1.18-1.23	≥884	≥1831	263-287	11.8-12.3	≥11.1	≥23.0	33-36	165
46	N38SHT	1.23-1.26	≥923	≥1831	287-310	12.3-12.6	≥11.6	≥23.0	36-39	165
47	N40SHT	1.26-1.29	≥955	≥1831	302-326	12.6-12.9	≥12.0	≥23.0	38-41	165
48	N42SHT	1.29-1.33	≥955	≥1831	318-342	12.9-13.3	≥12.0	≥23.0	40-43	165
49	N45SHT	1.33-1.37	≥987	≥1831	334-366	13.3-13.7	≥12.4	≥23.0	42-46	165
50	N48SHT	1.37-1.41	≥1019	≥1831	358-390	13.7-14.1	≥12.8	≥23.0	45-49	165
51	N30UH	1.09-1.15	≥812	≥1990	223-247	10.9-11.5	≥10.2	≥25.0	28-31	180
52	N33UH	1.14-1.18	≥860	≥1990	247-271	11.4-11.8	≥10.8	≥25.0	31-34	180

Temperature condition: L/D = 0.7, typical. Maximum working temperature depends on magnet geometry, dimensions, magnetic circuit and operating conditions; do not infer it solely from the grade suffix.

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53	N35UH	1.18-1.23	≥892	≥1990	263-287	11.8-12.3	≥11.2	≥25.0	33-36	180
54	N38UH	1.23-1.26	≥923	≥1990	287-310	12.3-12.6	≥11.6	≥25.0	36-39	180
55	N40UH	1.26-1.29	≥955	≥1990	302-326	12.6-12.9	≥12.0	≥25.0	38-41	180
56	N42UH	1.29-1.33	≥971	≥1990	318-342	12.9-13.3	≥12.2	≥25.0	40-43	180
57	N45UH	1.33-1.36	≥987	≥1990	342-366	13.3-13.6	≥12.4	≥25.0	43-46	180
58	N48UH	1.36-1.41	≥1019	≥1990	358-390	13.6-14.1	≥12.8	≥25.0	45-49	180
59	N30UHT	1.09-1.14	≥812	≥2149	223-247	10.9-11.4	≥10.2	≥27.0	28-31	190
60	N33UHT	1.14-1.18	≥860	≥2149	247-271	11.4-11.8	≥10.8	≥27.0	31-34	190
61	N35UHT	1.18-1.23	≥892	≥2149	263-287	11.8-12.3	≥11.2	≥27.0	33-36	190
62	N38UHT	1.23-1.26	≥923	≥2149	287-310	12.3-12.6	≥11.6	≥27.0	36-39	190
63	N40UHT	1.26-1.29	≥955	≥2149	302-326	12.6-12.9	≥12.0	≥27.0	38-41	190
64	N42UHT	1.29-1.33	≥971	≥2149	318-342	12.9-13.3	≥12.2	≥27.0	40-43	190
65	N30EH	1.09-1.15	≥820	≥2388	223-247	10.9-11.5	≥10.3	≥30.0	28-31	200
66	N33EH	1.14-1.18	≥860	≥2388	247-271	11.4-11.8	≥10.8	≥30.0	31-34	200
67	N35EH	1.18-1.22	≥892	≥2388	263-287	11.8-12.2	≥11.2	≥30.0	33-36	200
68	N38EH	1.22-1.26	≥923	≥2388	287-310	12.2-12.6	≥11.6	≥30.0	36-39	200
69	N40EH	1.25-1.29	≥955	≥2388	302-326	12.5-12.9	≥12.0	≥30.0	38-41	200
70	N42EH	1.28-1.33	≥971	≥2388	310-342	12.8-13.3	≥12.2	≥30.0	39-43	200

Temperature condition: L/D = 0.7, typical. Maximum working temperature depends on magnet geometry, dimensions, magnetic circuit and operating conditions; do not infer it solely from the grade suffix.

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