Grain-Boundary-Diffused 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	G60M	1.520-1.560	≥1146	≥1114	438-478	15.20-15.60	≥14.4	≥14.0	55-60	100
2	G54H	1.450-1.510	≥1091	≥1353	406-438	14.50-15.10	≥13.7	≥17.0	51-55	120
3	G56H	1.470-1.530	≥1106	≥1353	414-446	14.70-15.30	≥13.9	≥17.0	52-56	120
4	G58H	1.500-1.550	≥1130	≥1353	422-462	15.00-15.50	≥14.2	≥17.0	53-58	120
5	G60H	1.520-1.560	≥1146	≥1353	438-478	15.20-15.60	≥14.4	≥17.0	55-60	120
6	G40SH	1.260-1.290	≥939	≥1592	302-326	12.60-12.90	≥11.8	≥20.0	38-41	150
7	G42SH	1.290-1.330	≥971	≥1592	318-342	12.90-13.30	≥12.2	≥20.0	40-43	150
8	G45SH	1.330-1.380	≥1003	≥1592	342-366	13.30-13.80	≥12.6	≥20.0	43-46	150
9	G48SH	1.370-1.410	≥1027	≥1592	358-390	13.70-14.10	≥12.9	≥20.0	45-49	150
10	G50SH	1.390-1.450	≥1051	≥1592	374-406	13.90-14.50	≥13.2	≥20.0	47-51	150
11	G52SH	1.420-1.480	≥1067	≥1592	390-422	14.20-14.80	≥13.4	≥20.0	49-53	150
12	G54SH	1.450-1.510	≥1091	≥1592	406-438	14.50-15.10	≥13.7	≥20.0	51-55	150
13	G56SH	1.470-1.530	≥1106	≥1592	414-446	14.70-15.30	≥13.9	≥20.0	52-56	150
14	G58SH	1.500-1.550	≥1130	≥1592	422-462	15.00-15.50	≥14.2	≥20.0	53-58	150
15	G60SH	1.520-1.560	≥1146	≥1592	438-478	15.20-15.60	≥14.4	≥20.0	55-60	150
16	G35SHT	1.180-1.230	≥884	≥1831	263-287	11.80-12.30	≥11.1	≥23.0	33-36	165
17	G38SHT	1.230-1.260	≥923	≥1831	287-310	12.30-12.60	≥11.6	≥23.0	36-39	165
18	G40SHT	1.260-1.290	≥955	≥1831	302-326	12.60-12.90	≥12.0	≥23.0	38-41	165
19	G42SHT	1.290-1.330	≥963	≥1831	318-342	12.90-13.30	≥12.1	≥23.0	40-43	165
20	G45SHT	1.330-1.370	≥995	≥1831	334-366	13.30-13.70	≥12.5	≥23.0	42-46	165
21	G48SHT	1.370-1.410	≥1027	≥1831	358-390	13.70-14.10	≥12.9	≥23.0	45-49	165
22	G50SHT	1.390-1.450	≥1051	≥1831	374-406	13.90-14.50	≥13.2	≥23.0	47-51	165
23	G52SHT	1.420-1.480	≥1067	≥1831	390-422	14.20-14.80	≥13.4	≥23.0	49-53	165
24	G54SHT	1.450-1.510	≥1091	≥1831	406-438	14.50-15.10	≥13.7	≥23.0	51-55	165
25	G56SHT	1.470-1.530	≥1106	≥1831	414-446	14.70-15.30	≥13.9	≥23.0	52-56	165
26	G30UH	1.090-1.150	≥812	≥1990	223-247	10.90-11.50	≥10.2	≥25.0	28-31	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.

G58UH has a conflict between the paired (BH)max units. G60M has unusual Hcb/Hcj minimum ordering; independent minimum guarantees alone do not establish impossible measured values. Both remain uncorrected pending clarification.

Confirm the grade, drawing, operating point and applicable data version with engineering before use. All numeric values, inequalities, units and family labels in this table are preserved from the reference snapshot.

Grain-Boundary-Diffused 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	G33UH	1.140-1.180	≥860	≥1990	247-271	11.40-11.80	≥10.8	≥25.0	31-34	180
28	G35UH	1.180-1.230	≥892	≥1990	263-287	11.80-12.30	≥11.2	≥25.0	33-36	180
29	G38UH	1.230-1.260	≥923	≥1990	287-310	12.30-12.60	≥11.6	≥25.0	36-39	180
30	G40UH	1.260-1.290	≥955	≥1990	302-326	12.60-12.90	≥12.0	≥25.0	38-41	180
31	G42UH	1.290-1.330	≥971	≥1990	318-342	12.90-13.30	≥12.2	≥25.0	40-43	180
32	G45UH	1.330-1.380	≥1003	≥1990	342-366	13.30-13.80	≥12.6	≥25.0	43-46	180
33	G48UH	1.360-1.420	≥1027	≥1990	358-390	13.60-14.20	≥12.9	≥25.0	45-49	180
34	G50UH	1.390-1.450	≥1051	≥1990	374-406	13.90-14.50	≥13.2	≥25.0	47-51	180
35	G52UH	1.420-1.480	≥1067	≥1990	390-422	14.20-14.80	≥13.4	≥25.0	49-53	180
36	G54UH	1.450-1.510	≥1091	≥1990	406-438	14.50-15.10	≥13.7	≥25.0	51-55	180
37	G56UH	1.470-1.530	≥1106	≥1990	414-446	14.70-15.30	≥13.9	≥25.0	52-56	180
38	G58UH	1.490-1.540	≥1122	≥1990	414-446	14.90-15.40	≥14.1	≥25.0	53-57	180
39	G30UHT	1.090-1.140	≥812	≥2149	223-247	10.90-11.40	≥10.2	≥27.0	28-31	190
40	G33UHT	1.140-1.180	≥860	≥2149	247-271	11.40-11.80	≥10.8	≥27.0	31-34	190
41	G35UHT	1.180-1.230	≥892	≥2149	263-287	11.80-12.30	≥11.2	≥27.0	33-36	190
42	G38UHT	1.230-1.260	≥923	≥2149	287-310	12.30-12.60	≥11.6	≥27.0	36-39	190
43	G40UHT	1.260-1.290	≥955	≥2149	302-326	12.60-12.90	≥12.0	≥27.0	38-41	190
44	G42UHT	1.290-1.330	≥971	≥2149	318-342	12.90-13.30	≥12.2	≥27.0	40-43	190
45	G45UHT	1.330-1.380	≥1003	≥2149	342-366	13.30-13.80	≥12.6	≥27.0	43-46	190
46	G48UHT	1.360-1.420	≥1027	≥2149	358-390	13.60-14.20	≥12.9	≥27.0	45-49	190
47	G50UHT	1.390-1.450	≥1051	≥2149	374-406	13.90-14.50	≥13.2	≥27.0	47-51	190
48	G52UHT	1.420-1.480	≥1067	≥2149	390-422	14.20-14.80	≥13.4	≥27.0	49-53	190
49	G54UHT	1.450-1.510	≥1091	≥2149	406-438	14.50-15.10	≥13.7	≥27.0	51-55	190
50	G30EH	1.090-1.150	≥820	≥2388	223-247	10.90-11.50	≥10.3	≥30.0	28-31	200
51	G33EH	1.140-1.180	≥860	≥2388	247-271	11.40-11.80	≥10.8	≥30.0	31-34	200
52	G35EH	1.180-1.220	≥892	≥2388	263-287	11.80-12.20	≥11.2	≥30.0	33-36	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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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
53	G38EH	1.220-1.270	≥915	≥2388	287-310	12.20-12.70	≥11.5	≥30.0	36-39	200
54	G40EH	1.250-1.300	≥939	≥2388	302-326	12.50-13.00	≥11.8	≥30.0	38-41	200
55	G42EH	1.280-1.330	≥971	≥2388	310-342	12.80-13.30	≥12.2	≥30.0	39-43	200
56	G45EH	1.330-1.380	≥995	≥2388	334-366	13.30-13.80	≥12.5	≥30.0	42-46	200
57	G48EH	1.360-1.420	≥1027	≥2388	358-390	13.60-14.20	≥12.9	≥30.0	45-49	200
58	G50EH	1.390-1.450	≥1051	≥2388	374-406	13.90-14.50	≥13.2	≥30.0	47-51	200
59	G52EH	1.420-1.480	≥1067	≥2388	390-422	14.20-14.80	≥13.4	≥30.0	49-53	200
60	G54EH	1.450-1.510	≥1091	≥2388	406-438	14.50-15.10	≥13.7	≥30.0	51-55	200
61	G28TH	1.050-1.100	≥780	≥2786	207-231	10.50-11.00	≥9.8	≥35.0	26-29	230
62	G30TH	1.080-1.140	≥804	≥2786	223-247	10.80-11.40	≥10.1	≥35.0	28-31	230
63	G33TH	1.130-1.180	≥852	≥2786	247-271	11.30-11.80	≥10.7	≥35.0	31-34	230
64	G35TH	1.170-1.220	≥876	≥2786	263-287	11.70-12.20	≥11.0	≥35.0	33-36	230
65	G38TH	1.220-1.270	≥915	≥2786	287-310	12.20-12.70	≥11.5	≥35.0	36-39	230
66	G40TH	1.250-1.290	≥955	≥2786	295-326	12.50-12.90	≥12.0	≥35.0	37-41	230
67	G42TH	1.280-1.330	≥971	≥2786	310-342	12.80-13.30	≥12.2	≥35.0	39-43	230
68	G45TH	1.320-1.380	≥995	≥2786	334-366	13.20-13.80	≥12.5	≥35.0	42-46	230
69	G48TH	1.360-1.420	≥1027	≥2786	358-390	13.60-14.20	≥12.9	≥35.0	45-49	230
70	G50TH	1.390-1.450	≥1051	≥2786	374-406	13.90-14.50	≥13.2	≥35.0	47-51	230
71	G28YH	1.040-1.100	≥780	≥3184	207-231	10.40-11.00	≥9.8	≥40.0	26-29	250
72	G30YH	1.080-1.140	≥804	≥3184	223-247	10.80-11.40	≥10.1	≥40.0	28-31	250
73	G33YH	1.130-1.180	≥852	≥3184	247-271	11.30-11.80	≥10.7	≥40.0	31-34	250
74	G35YH	1.170-1.220	≥876	≥3184	263-287	11.70-12.20	≥11.0	≥40.0	33-36	250
75	G38YH	1.220-1.270	≥915	≥3184	287-310	12.20-12.70	≥11.5	≥40.0	36-39	250
76	G40YH	1.250-1.290	≥946	≥3184	295-326	12.50-12.90	≥11.9	≥40.0	37-41	250
77	G42YH	1.280-1.330	≥969	≥3184	310-342	12.80-13.30	≥12.2	≥40.0	39-43	250
78	G45YH	1.310-1.360	≥987	≥3184	326-366	13.10-13.60	≥12.4	≥40.0	41-46	250

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