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Magnetic properties of N-Type sintered Nd-Fe-B permanent magnets at room temperature (20 ℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	N30	1.08 - 1.14	10.8 - 11.4	960	12	804	10.1	223 - 251	28 – 31.5	80 ℃
2.	N33	1.14 - 1.19	11.4 - 11.9	960	12	843	10.6	247 - 271	31 - 34	80 ℃
3.	N35	1.18 - 1.23	11.8 - 12.3	960	12	884	11.1	267 - 291	33.5 - 36.5	80 ℃
4.	N38	1.23 - 1.28	12.3 - 12.8	960	12	915	11.5	291 - 314	36.5 - 39.5	80 ℃
5.	N40	1.26 - 1.30	12.6 - 13.0	960	12	915	11.5	302 - 326	38 - 41	80 ℃
6.	N42	1.29 - 1.33	12.9 - 13.3	960	12	915	11.5	318 - 342	40 - 43	80 ℃
7.	N45	1.33 - 1.38	13.3 - 13.8	960	12	915	11.5	338 - 366	42.5 - 46	80 ℃
8.	N48	1.38 - 1.42	13.8 - 14.2	960	12	915	11.5	362 - 390	45.5 - 49	80 ℃
9.	N50	1.39 - 1.45	13.9 - 14.5	960	12	915	11.5	370 - 406	46.5 - 51	80 ℃
10.	N52	1.43 - 1.48	14.3 - 14.8	960	12	915	11.5	386 - 422	48.5 - 53	80 ℃
11.	N54	1.45 - 1.50	14.5 - 15.0	960	12	915	11.5	398-430	50 - 54	80 ℃
12.	N56	1.47 - 1.52	14.7 - 15.2	960	12	915	11.5	410-446	51.5 - 56	80 ℃
13.	N58	1.49 - 1.55	14.9 - 15.5	876	11	836	10.5	422-462	53 - 58	60 ℃

Note: Delete N28, add N54 N56 N58.

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Magnetic properties of M-Type sintered Nd-Fe-B permanent magnets at room temperature (20 ℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	30M	1.08 - 1.14	10.8 - 11.4	1114	14	812	10.2	223 - 251	28 – 31.5	100 ℃
2.	33M	1.14 - 1.19	11.4 - 11.9	1114	14	852	10.7	247 - 271	31 - 34	100 ℃
3.	35M	1.18 - 1.23	11.8 - 12.3	1114	14	883	11.1	267 - 291	33.5 – 36.5	100 ℃
4.	38M	1.23 - 1.28	12.3 - 12.8	1114	14	915	11.5	291 - 314	36.5 – 39.5	100 ℃
5.	40M	1.26 - 1.30	12.6 - 13.0	1114	14	939	11.8	302 - 326	38 - 41	100 ℃
6.	42M	1.29 - 1.33	12.9 - 13.3	1114	14	963	12.1	318 - 342	40 - 43	100 ℃
7.	45M	1.33 - 1.38	13.3 - 13.8	1114	14	995	12.5	338 - 366	42.5 - 46	100 ℃
8.	48M	1.37 - 1.42	13.7 - 14.2	1114	14	1019	12.8	358 - 390	45 - 49	100 ℃
9.	50M	1.39 - 1.45	13.9 - 14.5	1114	14	1035	13.0	370 - 406	46.5 - 51	100 ℃
10.	52M	1.42 - 1.48	14.2 - 14.8	1114	14	1035	13.0	386 - 422	48.5 - 53	100 ℃
11.	55M	1.45 - 1.52	14.5 - 15.2	1035	13	971	12.2	398 - 446	50 - 56	90 ℃

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Magnetic properties of H-Type sintered Nd-Fe-B permanent magnets at room temperature (20 ℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	28H	1.04 - 1.09	10.4 - 10.9	1353	17	788	9.9	207 - 231	26 - 29	120℃
2.	30H	1.08 - 1.14	10.8 - 11.4	1353	17	820	10.3	223 - 251	28 – 31.5	120℃
3.	33H	1.14 - 1.19	11.4 - 11.9	1353	17	860	10.8	247 - 271	31 - 34	120℃
4.	35H	1.18 - 1.23	11.8 - 12.3	1353	17	884	11.1	267 - 291	33.5 – 36.5	120℃
5.	38H	1.23 - 1.28	12.3 - 12.8	1353	17	923	11.6	291 - 314	36.5 – 39.5	120℃
6.	40H	1.26 - 1.30	12.6 - 13.0	1353	17	947	11.9	302 - 326	38 - 41	120℃
7.	42H	1.29 - 1.33	12.9 - 13.3	1353	17	971	12.2	318 - 342	40 - 43	120℃
8.	45H	1.33 - 1.38	13.3 - 13.8	1353	17	1003	12.6	338 - 366	42.5 - 46	120℃
9.	46H	1.35 - 1.40	13.5 - 14.0	1353	17	1019	12.8	346 - 374	43.5 - 47	120℃
10.	47H	1.36 - 1.41	13.6 - 14.1	1353	17	1027	12.9	350 - 382	44 - 48	120℃
11.	48H	1.37 - 1.42	13.7 - 14.2	1353	17	1035	13.0	358 - 390	45 - 49	120 ℃
12.	50H	1.39 - 1.44	13.9 - 14.4	1353	17	1043	13.1	370 - 398	46.5 - 50	120 ℃
13.	52H	1.42 - 1.47	14.2 - 14.7	1274	16	1075	13.5	382 - 414	48 - 52	110 ℃

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Magnetic properties of SH-Type sintered Nd-Fe-B permanent magnets at room temperature (20 ℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	28SH	1.04 - 1.09	10.4 - 10.9	1592	20	788	9.9	207 - 231	26 - 29	150 ℃
2.	30SH	1.08 - 1.14	10.8 - 11.4	1592	20	820	10.3	223 - 251	28 – 31.5	150 ℃
3.	33SH	1.14 - 1.19	11.4 - 11.9	1592	20	860	10.8	247 - 271	31 - 34	150 ℃
4.	35SH	1.18 - 1.23	11.8 - 12.3	1592	22	884	11.1	267 - 291	33.5 – 36.5	150 ℃
5.	38SH	1.23 - 1.28	12.3 - 12.8	1592	20	923	11.6	291 - 314	36.5 – 39.5	150 ℃
6.	40SH	1.26 - 1.30	12.6 - 13.0	1592	20	947	11.9	302 - 326	38 - 41	150 ℃
7.	42SH	1.29 - 1.33	12.9 - 13.3	1592	20	971	12.2	318 - 342	40 - 43	150 ℃
8.	44SH	1.32 - 1.36	13.2 - 13.6	1592	20	995	12.5	334 - 358	42 - 45	150 ℃
9.	45SH	1.33 - 1.38	13.3 - 13.8	1592	20	1003	12.6	338 - 366	42.5 - 46	150 ℃
10.	46SH	1.35 - 1.40	13.5 - 14.0	1592	20	1019	12.8	346 - 374	43.5 - 47	150 ℃
11.	48SH	1.37 - 1.42	13.7 - 14.2	1592	20	1035	13.0	358 - 390	45 - 49	150 ℃
12.	50SH	1.39 - 1.44	13.9 - 14.4	1592	20	1043	13.1	366 - 398	46 - 50	150 ℃
13.	52SH	1.42 - 1.47	14.2 - 14.7	1512	19	1075	13.5	382 - 414	48 - 52	140 ℃

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Magnetic properties of UH-Type sintered Nd-Fe-B permanent magnets at room temperature (20 ℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	28UH	1.04 - 1.09	10.4 - 10.9	1990	25	788	9.9	207 - 231	26 - 29	180 ℃
2.	30UH	1.08 - 1.14	10.8 - 11.4	1990	25	820	10.3	223 - 251	28 – 31.5	180 ℃
3.	33UH	1.14 - 1.19	11.4 - 11.9	1990	25	860	10.8	251 - 275	31.5 – 34.5	180 ℃
4.	35UH	1.18 - 1.23	11.8 - 12.3	1990	25	884	11.1	267 - 291	33.5 – 36.5	180 ℃
5.	38UH	1.23 - 1.28	12.3 - 12.8	1990	25	923	11.6	291 - 314	36.5 – 39.5	180 ℃
6.	40UH	1.26 - 1.30	12.6 - 13.0	1990	25	947	11.9	302 - 326	38 - 41	180 ℃
7.	42UH	1.29 - 1.33	12.9 - 13.3	1990	25	971	12.2	318 - 342	40 - 43	180 ℃
8.	44UH	1.32 - 1.36	13.2 - 13.6	1990	25	995	12.5	334 - 358	42 - 45	180 ℃
9.	45UH	1.33 - 1.38	13.6 - 13.8	1910	24	1003	12.6	338 - 366	42.5 - 46	170 ℃

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Magnetic properties of EH-Type sintered Nd-Fe-B permanent magnets at room temperature (20℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	28EH	1.05 - 1.09	10.5 - 10.9	2388	30	788	9.9	207 - 231	26 - 29	200 ℃
2.	30EH	1.08 - 1.14	10.8 - 11.4	2388	30	820	10.3	223 - 251	28 – 31.5	200 ℃
3.	33EH	1.14 - 1.19	11.4 - 11.9	2388	30	860	10.8	251 - 275	31.5 – 34.5	200 ℃
4.	35EH	1.18 - 1.22	11.8 - 12.2	2388	30	884	11.1	267 - 291	33.5 – 36.5	200 ℃
5.	38EH	1.22 - 1.27	12.2 - 12.7	2388	30	923	11.6	287- 314	36 – 39.5	200 ℃
6.	40EH	1.25 - 1.30	12.5 - 13.0	2388	30	947	11.9	302 - 326	38 - 41	200 ℃
7.	42EH	1.28 - 1.33	12.8 - 13.3	2308	29	971	12.2	318 - 342	40 - 43	190 ℃

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Magnetic properties of TH-Type sintered Nd-Fe-B permanent magnets at room temperature (20℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	28TH	1.05 - 1.09	10.5 - 10.9	2786	35	796	10.0	207 - 231	26 - 29	240 ℃
2.	30TH	1.08 - 1.14	10.8 - 11.4	2786	35	820	10.3	223 - 251	28 – 31.5	240 ℃
3.	33TH	1.14 - 1.19	11.4 - 11.9	2786	35	860	10.8	251 - 275	31.5 – 34.5	240 ℃
4.	35TH	1.18 - 1.22	11.8 - 12.2	2786	35	891	11.2	267 - 291	33.5 – 36.5	240 ℃
5.	38TH	1.22 - 1.27	12.2 – 12.7	2706	34	923	11.6	287 - 314	36 – 39.5	230 ℃

Note: Original type name is AH, new type name is TH.

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Magnetic properties with Ce sintered Nd-Fe-B permanent magnets at room temperature (20℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	N28C	1.04-1.09	10.4-10.9	960	12	788	9.9	207-231	26-29	80 ℃
2.	N30C	1.08-1.13	10.8-11.3	960	12	804	10.1	223-247	28-31	80 ℃
3.	N33C	1.13-1.19	11.3-11.9	960	12	843	10.6	247-271	31-34	80 ℃
4.	N35C	1.17-1.22	11.7-12.2	960	12	873	11	263-287	33-36	80 ℃
5.	N38C	1.22-1.27	12.2-12.7	960	12	915	11.5	287-310	36-39	80 ℃
6.	N40C	1.26-1.30	12.6-13	960	12	915	11.5	302-326	38-41	80 ℃
7.	N42C	1.29-1.33	12.9-13.3	960	12	915	11.5	318-342	40-43	80 ℃
8.	N45C	1.33-1.38	13.3-13.8	960	12	915	11.5	338-366	42.5-46	80 ℃
9.	N48C	1.38-1.42	13.8-14.2	960	12	915	11.5	362-390	45.5-49	80 ℃
10.	N50C	1.39-1.45	13.9-14.5	960	12	915	11.5	370-406	46.5-51	80 ℃
11.	N52C	1.43-1.48	14.3-14.8	960	12	915	11.5	386-422	48.5-53	80 ℃
12.	33MC	1.13-1.19	11.3-11.9	1114	14	843	10.6	247-271	31-34	100 ℃
13.	35MC	1.17-1.22	11.7-12.2	1114	14	873	11	263-287	33-36	100 ℃
14.	38MC	1.22-1.27	12.2-12.7	1114	14	915	11.5	287-310	36-39	100 ℃

15.	40MC	1.26-1.3	12.6-13	1114	14	940	11.8	302-326	38-41	100 ℃
16.	42MC	1.29-1.33	12.9-13.3	1114	14	964	12.1	318-342	40-43	100 ℃
17.	45MC	1.33-1.38	13.3-13.8	1114	14	995	12.5	338-366	42.5-46	100 ℃
18.	48MC	1.37-1.42	13.7-14.2	1114	14	1019	12.8	358-390	45-49	100 ℃
19.	30HC	1.08-1.13	10.8-11.3	1353	17	804	10.1	223-247	28-31	120 ℃
20.	33HC	1.13-1.19	11.3-11.9	1353	17	843	10.6	247-271	31-34	120 ℃
21.	35HC	1.17-1.22	11.7-12.2	1353	17	873	11	263-287	33-36	120 ℃
22.	38HC	1.22-1.27	12.2-12.7	1353	17	915	11.5	287-310	36-39	120 ℃
23.	40HC	1.26-1.3	12.6-13	1353	17	940	11.8	302-326	38-41	120 ℃
24.	42HC	1.29-1.33	12.9-13.3	1353	17	964	12.1	318-342	40-43	120 ℃
25.	35SHC	1.17-1.22	11.7-12.2	1592	20	873	11	263-287	33-36	150 ℃
26.	38SHC	1.22-1.27	12.2-12.7	1592	20	915	11.5	287-310	36-39	150 ℃
27.	40SHC	1.26-1.3	12.6-13	1592	20	940	11.8	302-326	38-41	150 ℃
28.	42SHC	1.29-1.33	12.9-13.3	1592	20	964	12.1	318-342	40-43	150 ℃

Note: This sheet is new one.

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Magnetic properties of sintered Nd-Fe-B permanent magnets at room temperature (20 ℃)

Magnetic Properties										
No.	Material Grade	B_r		$H_{cJ,min}$		$H_{cB,min}$		$(BH)_{max}$		T_{max} (℃)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m³	MGOe	
1.	G52H	1.425-1.480	14.25-14.8	1353	17	1074	13.5	390-422	49-53	120 ℃
2.	G55H	1.47-1.525	14.7-15.25	1353	17	1106	13.9	414-446	52-56	120 ℃
3.	G57H	1.495-1.55	14.95-15.5	1353	17	1122	14.1	430-462	54-58	110 ℃
4.	G45SH	1.335-1.38	13.35-13.8	1592	20	1003	12.6	342-366	43-46	150 ℃
5.	G48SH	1.365-1.425	13.65-14.25	1592	20	1027	12.9	358-390	45-49	150 ℃
6.	G50SH	1.395-1.455	13.95-14.55	1592	20	1051	13.2	374-406	47-51	150 ℃
7.	G52SH	1.425-1.48	14.25-14.8	1592	20	1067	13.4	390-422	49-53	150 ℃
8.	G55SH	1.47-1.525	14.7-15.25	1592	20	1106	13.9	414-446	52-56	140 ℃
9.	G33UH	1.135-1.185	11.35-11.85	1990	25	852	10.7	247-271	31-34	180 ℃
10.	G35UH	1.17-1.22	11.7-12.2	1990	25	883	11.1	263-287	33-36	180 ℃
11.	G38UH	1.22-1.27	12.2-12.7	1990	25	916	11.5	287-310	36-39	180 ℃
12.	G40UH	1.255-1.305	12.55-13.05	1990	25	939	11.8	302-326	38-41	180 ℃

13.	G42UH	1.285-1.335	12.85-13.35	1990	25	963	12.1	318-342	40-43	180 ℃
14.	G45UH	1.32-1.38	13.2-13.8	1990	25	995	12.5	334-366	42-46	180 ℃
15.	G48UH	1.365 - 1.425	13.65 - 14.25	1990	25	1027	12.9	358 - 390	45 - 49	180 ℃
16.	G50UH	1.395 - 1.455	13.95 - 14.55	1990	25	1051	13.2	374 - 406	47 - 51	180 ℃
17.	G52UH	1.425-1.48	14.25-14.8	1990	25	1067	13.4	390-422	49-53	180 ℃
18.	G54UH	1.455-1.51	14.55-15.1	1990	25	1090	13.7	406-438	51-55	170 ℃
19.	G28EH	1.040-1.095	10.4-10.95	2388	30	780	9.8	207-231	26-29	200 ℃
20.	G30EH	1.080-1.135	10.8-11.35	2388	30	812	10.2	223-247	28-31	200 ℃
21.	G33EH	1.135-1.185	11.35-11.85	2388	30	852	10.7	247-271	31-34	200 ℃
22.	G35EH	1.17-1.22	11.7-12.2	2388	30	883	11.1	263-287	33-36	200 ℃
23.	G38EH	1.22-1.27	12.2-12.7	2388	30	916	11.5	287-310	36-39	200 ℃
24.	G40EH	1.255-1.305	12.55-13.05	2388	30	939	11.8	302-326	38-41	200 ℃
25.	G42EH	1.27-1.335	12.7-13.35	2388	30	955	12	310-342	39-43	200 ℃
26.	G45EH	1.32-1.38	13.2-13.8	2388	30	995	12.5	334-366	42-46	200 ℃
27.	G48EH	1.365-1.425	13.65-14.25	2388	30	1027	12.9	358-390	45-49	200 ℃
28.	G50EH	1.395-1.455	13.95-14.55	2388	30	1051	13.2	374-406	47-51	190 ℃
29.	G28TH	1.04-1.095	10.4-10.95	2786	35	780	9.8	207-231	26-29	240 ℃
30.	G30TH	1.08-1.135	10.8-11.35	2786	35	812	10.2	223-247	28-31	240 ℃
31.	G33TH	1.135-1.185	11.35-11.85	2786	35	852	10.7	247-271	31-34	240 ℃
32.	G35TH	1.17-1.22	11.7-12.2	2786	35	891	11.2	263-287	33-36	240 ℃
33.	G38TH	1.22-1.27	12.2-12.7	2786	35	931	11.7	287-310	36-39	240 ℃
34.	G40TH	1.24 - 1.305	12.4-13.05	2786	35	947	11.9	295-326	37-41	240 ℃

35.	G42TH	1.27-1.335	12.7-13.35	2786	35	963	12.1	310-342	39-43	240 ℃
36.	G45TH	1.32-1.38	13.2-13.8	2786	35	995	12.5	334-366	42-46	230 ℃

Note: G refers to the grain boundary diffusion – GBD material grades.