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

Magnetic Properties										
No.	Material Grade	B _r		H _{cJ,min}		H _{cB,min}		(BH) _{max}		T _{max} (°C)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	N30	1.08 - 1.14	10.8 - 11.4	960	12	804	10.1	223 - 251	28.0 - 31.5	80 °C
2.	N33	1.14 - 1.19	11.4 - 11.9	960	12	843	10.6	247 - 271	31.0 - 34.0	80 °C
3.	N35	1.18 - 1.23	11.8 - 12.3	960	12	884	11.1	267 - 291	33.5 - 36.5	80 °C
4.	N38	1.23 - 1.28	12.3 - 12.8	960	12	915	11.5	291 - 314	36.5 - 39.5	80 °C
5.	N40	1.26 - 1.30	12.6 - 13.0	960	12	915	11.5	302 - 326	38.0 - 41.0	80 °C
6.	N42	1.29 - 1.33	12.9 - 13.3	960	12	915	11.5	318 - 342	40.0 - 43.0	80 °C
7.	N45	1.33 - 1.38	13.3 - 13.8	960	12	915	11.5	338 - 366	42.5 - 46.0	80 °C
8.	N48	1.38 - 1.42	13.8 - 14.2	960	12	915	11.5	362 - 390	45.5 - 49.0	80 °C
9.	N50	1.39 - 1.45	13.9 - 14.5	960	12	915	11.5	370 - 406	46.5 - 51.0	80 °C
10.	N52	1.43 - 1.48	14.3 - 14.8	960	12	915	11.5	386 - 422	48.5 - 53.0	80 °C
11.	N54	1.45 - 1.50	14.5 - 15.0	960	12	915	11.5	398 - 430	50.0 - 54.0	80 °C
12.	N56	1.47 - 1.52	14.7 - 15.2	960	12	915	11.5	410 - 446	51.5 - 56.0	80 °C
13.	N58	1.49 - 1.55	14.9 - 15.5	876	11	836	10.5	422 - 462	53.0 - 58.0	60 °C



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

Magnetic Properties										
No.	Material Grade	B _r		H _{cJ,min}		H _{cB,min}		(BH) _{max}		T _{max} (°C)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	30M	1.08 - 1.14	10.8 - 11.4	1114	14	812	10.2	223 - 251	28.0 - 31.5	100 °C
2.	33M	1.14 - 1.19	11.4 - 11.9	1114	14	852	10.7	247 - 271	31.0 - 34.0	100 °C
3.	35M	1.18 - 1.23	11.8 - 12.3	1114	14	883	11.1	267 - 291	33.5 - 36.5	100 °C
4.	38M	1.23 - 1.28	12.3 - 12.8	1114	14	915	11.5	291 - 314	36.5 - 39.5	100 °C
5.	40M	1.26 - 1.30	12.6 - 13.0	1114	14	939	11.8	302 - 326	38.0 - 41.0	100 °C
6.	42M	1.29 - 1.33	12.9 - 13.3	1114	14	963	12.1	318 - 342	40.0 - 43.0	100 °C
7.	45M	1.33 - 1.38	13.3 - 13.8	1114	14	995	12.5	338 - 366	42.5 - 46.0	100 °C
8.	48M	1.37 - 1.42	13.7 - 14.2	1114	14	1019	12.8	358 - 390	45.0 - 49.0	100 °C
9.	50M	1.39 - 1.45	13.9 - 14.5	1114	14	1035	13.0	370 - 406	46.5 - 51.0	100 °C
10.	52M	1.42 - 1.48	14.2 - 14.8	1114	14	1035	13.0	386 - 422	48.5 - 53.0	100 °C
11.	55M	1.45 - 1.52	14.5 - 15.2	1035	13	971	12.2	398 - 446	50.0 - 56.0	90 °C



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

Magnetic Properties										
No.	Material Grade	B _r		H _{cJ,min}		H _{cB,min}		(BH) _{max}		T _{max} (°C)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	28H	1.04 - 1.09	10.4 - 10.9	1353	17	788	9.9	207 - 231	26.0 - 29.0	120 °C
2.	30H	1.08 - 1.14	10.8 - 11.4	1353	17	820	10.3	223 - 251	28.0 - 31.5	120 °C
3.	33H	1.14 - 1.19	11.4 - 11.9	1353	17	860	10.8	247 - 271	31.0 - 34.0	120 °C
4.	35H	1.18 - 1.23	11.8 - 12.3	1353	17	884	11.1	267 - 291	33.5 - 36.5	120 °C
5.	38H	1.23 - 1.28	12.3 - 12.8	1353	17	923	11.6	291 - 314	36.5 - 39.5	120 °C
6.	40H	1.26 - 1.30	12.6 - 13.0	1353	17	947	11.9	302 - 326	38.0 - 41.0	120 °C
7.	42H	1.29 - 1.33	12.9 - 13.3	1353	17	971	12.2	318 - 342	40.0 - 43.0	120 °C
8.	45H	1.33 - 1.38	13.3 - 13.8	1353	17	1003	12.6	338 - 366	42.5 - 46.0	120 °C
9.	46H	1.35 - 1.40	13.5 - 14.0	1353	17	1019	12.8	346 - 374	43.5 - 47.0	120 °C
10.	47H	1.36 - 1.41	13.6 - 14.1	1353	17	1027	12.9	350 - 382	44.0 - 48.0	120 °C
11.	48H	1.37 - 1.42	13.7 - 14.2	1353	17	1035	13.0	358 - 390	45.0 - 49.0	120 °C
12.	50H	1.39 - 1.44	13.9 - 14.4	1353	17	1043	13.1	370 - 398	46.5 - 50.0	120 °C
13.	52H	1.42 - 1.47	14.2 - 14.7	1274	16	1075	13.5	382 - 414	48.0 - 52.0	110 °C



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

Magnetic Properties										
No.	Material Grade	B _r		H _{cJ,min}		H _{cB,min}		(BH) _{max}		T _{max} (°C)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	28SH	1.04 - 1.09	10.4 - 10.9	1592	20	788	9.9	207 - 231	26.0 - 29.0	150 °C
2.	30SH	1.08 - 1.14	10.8 - 11.4	1592	20	820	10.3	223 - 251	28.0 - 31.5	150 °C
3.	33SH	1.14 - 1.19	11.4 - 11.9	1592	20	860	10.8	247 - 271	31.0 - 34.0	150 °C
4.	35SH	1.18 - 1.23	11.8 - 12.3	1592	22	884	11.1	267 - 291	33.5 - 36.5	150 °C
5.	38SH	1.23 - 1.28	12.3 - 12.8	1592	20	923	11.6	291 - 314	36.5 - 39.5	150 °C
6.	40SH	1.26 - 1.30	12.6 - 13.0	1592	20	947	11.9	302 - 326	38.0 - 41.0	150 °C
7.	42SH	1.29 - 1.33	12.9 - 13.3	1592	20	971	12.2	318 - 342	40.0 - 43.0	150 °C
8.	44SH	1.32 - 1.36	13.2 - 13.6	1592	20	995	12.5	334 - 358	42.0 - 45.0	150 °C
9.	45SH	1.33 - 1.38	13.3 - 13.8	1592	20	1003	12.6	338 - 366	42.5 - 46.0	150 °C
10.	46SH	1.35 - 1.40	13.5 - 14.0	1592	20	1019	12.8	346 - 374	43.5 - 47.0	150 °C
11.	48SH	1.37 - 1.42	13.7 - 14.2	1592	20	1035	13.0	358 - 390	45.0 - 49.0	150 °C
12.	50SH	1.39 - 1.44	13.9 - 14.4	1592	20	1043	13.1	366 - 398	46.0 - 50.0	150 °C
13.	52SH	1.42 - 1.47	14.2 - 14.7	1512	19	1075	13.5	382 - 414	48.0 - 52.0	140 °C



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

Magnetic Properties										
No.	Material	B _r		H _{cJ,min}		H _{cB,min}		(BH) _{max}		T _{max} (°C)
	Grade	T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	28UH	1.04 - 1.09	10.4 - 10.9	1990	25	788	9.9	207 - 231	26.0 - 29.0	180 °C
2.	30UH	1.08 - 1.14	10.8 - 11.4	1990	25	820	10.3	223 - 251	28.0 - 31.5	180 °C
3.	33UH	1.14 - 1.19	11.4 - 11.9	1990	25	860	10.8	251 - 275	31.5 - 34.5	180 °C
4.	35UH	1.18 - 1.23	11.8 - 12.3	1990	25	884	11.1	267 - 291	33.5 - 36.5	180 °C
5.	38UH	1.23 - 1.28	12.3 - 12.8	1990	25	923	11.6	291 - 314	36.5 - 39.5	180 °C
6.	40UH	1.26 - 1.30	12.6 - 13.0	1990	25	947	11.9	302 - 326	38.0 - 41.0	180 °C
7.	42UH	1.29 - 1.33	12.9 - 13.3	1990	25	971	12.2	318 - 342	40.0 - 43.0	180 °C
8.	44UH	1.32 - 1.36	13.2 - 13.6	1990	25	995	12.5	334 - 358	42.0 - 45.0	180 °C
9.	45UH	1.33 - 1.38	13.6 - 13.8	1910	24	1003	12.6	338 - 366	42.5 - 46.0	170 °C



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

Magnetic Properties										
No.	Material	Br		H _{cJ,min}		H _{cB,min}		(BH) _{max}		T _{max} (°C)
	Grade	T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	28EH	1.05 - 1.09	10.5 - 10.9	2388	30	788	9.9	207 - 231	26.0 - 29.0	200 °C
2.	30EH	1.08 - 1.14	10.8 - 11.4	2388	30	820	10.3	223 - 251	28.0 - 31.5	200 °C
3.	33EH	1.14 - 1.19	11.4 - 11.9	2388	30	860	10.8	251 - 275	31.5 - 34.5	200 °C
4.	35EH	1.18 - 1.22	11.8 - 12.2	2388	30	884	11.1	267 - 291	33.5 - 36.5	200 °C
5.	38EH	1.22 - 1.27	12.2 - 12.7	2388	30	923	11.6	287 - 314	36.0 - 39.5	200 °C
6.	40EH	1.25 - 1.30	12.5 - 13.0	2388	30	947	11.9	302 - 326	38.0 - 41.0	200 °C
7.	42EH	1.28 - 1.33	12.8 - 13.3	2308	29	971	12.2	318 - 342	40.0 - 43.0	190 °C



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

Magnetic Properties										
No.	Material	Br		HcJ,min		HcB,min		(BH) _{max}		T _{max} (°C)
	Grade	T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	28TH	1.05 - 1.09	10.5 - 10.9	2786	35	796	10.0	207 - 231	26.0 - 29.0	240 °C
2.	30TH	1.08 - 1.14	10.8 - 11.4	2786	35	820	10.3	223 - 251	28.0 - 31.5	240 °C
3.	33TH	1.14 - 1.19	11.4 - 11.9	2786	35	860	10.8	251 - 275	31.5 - 34.5	240 °C
4.	35TH	1.18 - 1.22	11.8 - 12.2	2786	35	891	11.2	267 - 291	33.5 - 36.5	240 °C
5.	38TH	1.22 - 1.27	12.2 - 12.7	2706	34	923	11.6	287 - 314	36.0 - 39.5	230 °C



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

Magnetic Properties										
No.	Material	Br		HcJ,min		HcB,min		(BH) _{max}		T _{max} (°C)
	Grade	T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	N28C	1.04 - 1.09	10.4 - 10.9	960	12	788	9.90	207 - 231	26.0 - 29.0	80 °C
2.	N30C	1.08 - 1.13	10.8 - 11.3	960	12	804	10.1	223 - 247	28.0 - 31.0	80 °C
3.	N33C	1.13 - 1.19	11.3 - 11.9	960	12	843	10.6	247 - 271	31.0 - 34.0	80 °C
4.	N35C	1.17 - 1.22	11.7 - 12.2	960	12	873	11.0	263 - 287	33.0 - 36.0	80 °C
5.	N38C	1.22 - 1.27	12.2 - 12.7	960	12	915	11.5	287 - 310	36.0 - 39.0	80 °C
6.	N40C	1.26 - 1.30	12.6 - 13.0	960	12	915	11.5	302 - 326	38.0 - 41.0	80 °C
7.	N42C	1.29 - 1.33	12.9 - 13.3	960	12	915	11.5	318 - 342	40.0 - 43.0	80 °C
8.	N45C	1.33 - 1.38	13.3 - 13.8	960	12	915	11.5	338 - 366	42.5 - 46.0	80 °C
9.	N48C	1.38 - 1.42	13.8 - 14.2	960	12	915	11.5	362 - 390	45.5 - 49.0	80 °C
10.	N50C	1.39 - 1.45	13.9 - 14.5	960	12	915	11.5	370 - 406	46.5 - 51.0	80 °C
11.	N52C	1.43 - 1.48	14.3 - 14.8	960	12	915	11.5	386 - 422	48.5 - 53.0	80 °C
12.	33MC	1.13 - 1.19	11.3 - 11.9	1114	14	843	10.6	247 - 271	31.0 - 34.0	100 °C
13.	35MC	1.17 - 1.22	11.7 - 12.2	1114	14	873	11.0	263 - 287	33.0 - 36.0	100 °C
14.	38MC	1.22 - 1.27	12.2 - 12.7	1114	14	915	11.5	287 - 310	36.0 - 39.0	100 °C

15.	40MC	1.26 - 1.30	12.6 - 13.0	1114	14	940	11.8	302 - 326	38.0 - 41.0	100 °C
16.	42MC	1.29 - 1.33	12.9 - 13.3	1114	14	964	12.1	318 - 342	40.0 - 43.0	100 °C
17.	45MC	1.33 - 1.38	13.3 - 13.8	1114	14	995	12.5	338 - 366	42.5 - 46.0	100 °C
18.	48MC	1.37 - 1.42	13.7 - 14.2	1114	14	1019	12.8	358 - 390	45.0 - 49.0	100 °C
19.	30HC	1.08 - 1.13	10.8 - 11.3	1353	17	804	10.1	223 - 247	28.0 - 31.0	120 °C
20.	33HC	1.13 - 1.19	11.3 - 11.9	1353	17	843	10.6	247 - 271	31.0 - 34.0	120 °C
21.	35HC	1.17 - 1.22	11.7 - 12.2	1353	17	873	11.0	263 - 287	33.0 - 36.0	120 °C
22.	38HC	1.22 - 1.27	12.2 - 12.7	1353	17	915	11.5	287 - 310	36.0 - 39.0	120 °C
23.	40HC	1.26 - 1.30	12.6 - 13.0	1353	17	940	11.8	302 - 326	38.0 - 41.0	120 °C
24.	42HC	1.29 - 1.33	12.9 - 13.3	1353	17	964	12.1	318 - 342	40.0 - 43.0	120 °C
25.	35SHC	1.17 - 1.22	11.7 - 12.2	1592	20	873	11.0	263 - 287	33.0 - 36.0	150 °C
26.	38SHC	1.22 - 1.27	12.2 - 12.7	1592	20	915	11.5	287 - 310	36.0 - 39.0	150 °C
27.	40SHC	1.26 - 1.30	12.6 - 13.0	1592	20	940	11.8	302 - 326	38.0 - 41.0	150 °C
28.	42SHC	1.29 - 1.33	12.9 - 13.3	1592	20	964	12.1	318 - 342	40.0 - 43.0	150 °C



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

Magnetic Properties										
No.	Material Grade	B _r		H _{cJ,min}		H _{cB,min}		(BH) _{max}		T _{max} (°C)
		T	kG	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
1.	G52H	1.14 - 1.48	14.3 - 14.8	1353	17	1074	13.5	390 - 422	49 - 53	120 °C
2.	G55H	1.47 - 1.52	14.7 - 15.3	1353	17	1106	13.9	414 - 446	52 - 56	120 °C
3.	G57H	1.49 - 1.55	14.9 - 15.5	1353	17	1122	14.1	430 - 462	54 - 58	110 °C
4.	G45SH	1.33 - 1.38	13.3 - 13.8	1592	20	1003	12.6	342 - 366	43 - 46	150 °C
5.	G48SH	1.36 - 1.43	13.6 - 14.2	1592	20	1027	12.9	358 - 390	45 - 49	150 °C
6.	G50SH	1.39 - 1.45	13.9 - 14.5	1592	20	1051	13.2	374 - 406	47 - 51	150 °C
7.	G52SH	1.42 - 1.48	14.2 - 14.8	1592	20	1067	13.4	390 - 422	49 - 53	150 °C
8.	G55SH	1.47 - 1.53	14.7 - 15.2	1592	20	1106	13.9	414 - 446	52 - 56	140 °C
9.	G33UH	1.13 - 1.18	11.3 - 11.8	1990	25	852	10.7	247 - 271	31 - 34	180 °C
10.	G35UH	1.17 - 1.22	11.7 - 12.2	1990	25	883	11.1	263 - 287	33 - 36	180 °C
11.	G38UH	1.22 - 1.27	12.2 - 12.7	1990	25	916	11.5	287 - 310	36 - 39	180 °C
12.	G40UH	1.25 - 1.31	12.5 - 13.1	1990	25	939	11.8	302 - 326	38 - 41	180 °C

13.	G42UH	1.28 - 1.33	12.8 - 13.3	1990	25	963	12.1	318 - 342	40 - 43	180 °C
14.	G45UH	1.32 - 1.38	13.2 - 13.8	1990	25	995	12.5	334 - 366	42 - 46	180 °C
15.	G48UH	1.36 - 1.42	13.6 - 14.2	1990	25	1027	12.9	358 - 390	45 - 49	180 °C
16.	G50UH	1.39 - 1.45	13.9 - 14.5	1990	25	1051	13.2	374 - 406	47 - 51	180 °C
17.	G52UH	1.42 - 1.48	14.2 - 14.8	1990	25	1067	13.4	390 - 422	49 - 53	180 °C
18.	G54UH	1.45 - 1.51	14.5 - 15.1	1990	25	1090	13.7	406 - 438	51 - 55	170 °C
19.	G28EH	1.04 - 1.09	10.4 - 10.9	2388	30	780	9.8	207 - 231	26 - 29	200 °C
20.	G30EH	1.08 - 1.13	10.8 - 11.3	2388	30	812	10.2	223 - 247	28 - 31	200 °C
21.	G33EH	1.13 - 1.18	11.3 - 11.8	2388	30	852	10.7	247 - 271	31 - 34	200 °C
22.	G35EH	1.17 - 1.22	11.7 - 12.2	2388	30	883	11.1	263 - 287	33 - 36	200 °C
23.	G38EH	1.22 - 1.27	12.2 - 12.7	2388	30	916	11.5	287 - 310	36 - 39	200 °C
24.	G40EH	1.25 - 1.31	12.5 - 13.1	2388	30	939	11.8	302 - 326	38 - 41	200 °C
25.	G42EH	1.27 - 1.34	12.7 - 13.4	2388	30	955	12.0	310 - 342	39 - 43	200 °C
26.	G45EH	1.32 - 1.38	13.2 - 13.8	2388	30	995	12.5	334 - 366	42 - 46	200 °C
27.	G48EH	1.37 - 1.43	13.7 - 14.3	2388	30	1027	12.9	358 - 390	45 - 49	200 °C
28.	G50EH	1.40 - 1.46	14.0 - 14.6	2388	30	1051	13.2	374 - 406	47 - 51	190 °C
29.	G28TH	1.04 - 1.10	10.4 - 10.9	2786	35	780	9.8	207 - 231	26 - 29	240 °C
30.	G30TH	1.08 - 1.14	10.8 - 11.4	2786	35	812	10.2	223 - 247	28 - 31	240 °C
31.	G33TH	1.14 - 1.19	11.4 - 11.9	2786	35	852	10.7	247 - 271	31 - 34	240 °C
32.	G35TH	1.17 - 1.22	11.7 - 12.2	2786	35	891	11.2	263 - 287	33 - 36	240 °C
33.	G38TH	1.22 - 1.27	12.2 - 12.7	2786	35	931	11.7	287 - 310	36 - 39	240 °C
34.	G40TH	1.24 - 1.31	12.4 - 13.1	2786	35	947	11.9	295 - 326	37 - 41	240 °C

35.	G42TH	1.27 - 1.34	12.7 - 13.4	2786	35	963	12.1	310 - 342	39 - 43	240 °C
36.	G45TH	1.32 - 1.38	13.2 - 13.8	2786	35	995	12.5	334 - 366	42 - 46	230 °C

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



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Sintered Nd-Fe-B Magnets

	No Heavy Rare Earth		Conventional Process		Grain Boundary Diffusion		
$(BH)_{max}$ (MGOe)	N	M	H	SH	UH	EH	TH
58	No Heavy Rare Earth						
56	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion			
54	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion		
52	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion		
50	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	
48	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	
45	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	
42	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion
40	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion
38	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion
35	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion
33	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion
30	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion
28	No Heavy Rare Earth		Conventional Process	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion	Grain Boundary Diffusion
$H_{cJ,range}$ (kOe)	12~14	14~17	17~20	20~25	25~30	30~35	35~40