

Phone In Mag-Electronics Co., Ltd.  
Magnetic Properties of Sintered Nd-Fe-B Magnets

Grade	Remanence Br				Coercive force Hcb		Intrinsic coercive force Hcj		Maximun Energy product (BH)max				Maximun Working Temp.
	KGs		T		KOe	KA/m	KOe	KA/m	MGOe		KJ/m <sup>3</sup>		L/D=0.7
	Max	Min	Max	Min	Min	Min	Min	Min	Max	Min	Max	Min	°C
N35	12.5	11.8	1.25	1.18	≥10.8	≥860	≥12	≥955	38	33	302	263	≤80
N38	13	12.3	1.30	1.23	≥10.8	≥860	≥12	≥955	41	36	326	286	≤80
N40	13.2	12.6	1.32	1.26	≥10.8	≥860	≥12	≥955	42	38	334	302	≤80
N42	13.5	13.0	1.35	1.30	≥10.8	≥860	≥12	≥955	44	40	350	318	≤80
N45	13.8	13.2	1.38	1.33	≥10.8	≥860	≥12	≥955	46	42	366	334	≤80
N48	14.3	13.7	1.43	1.37	≥10.5	≥836	≥11	≥876	49	45	390	358	≤80
N50	14.6	13.9	1.46	1.39	≥10.5	≥836	≥11	≥876	51	47	406	374	≤80
N52	14.8	14.2	1.48	1.42	≥10.5	≥836	≥11	≥876	53	49	422	390	≤80
N54	15.1	14.5	1.51	1.45	≥10.5	≥836	≥11	≥876	55	51	438	406	≤80
N35M	12.5	11.8	1.25	1.18	≥11.0	≥876	≥14	≥1114	38	33	302	263	≤100
N38M	13.0	12.3	1.30	1.23	≥11.5	≥916	≥14	≥1114	41	36	326	287	≤100
N40M	13.2	12.6	1.32	1.26	≥11.8	≥939	≥14	≥1114	43	38	342	302	≤100
N42M	13.5	13.0	1.35	1.30	≥12.0	≥955	≥14	≥1114	45	40	358	318	≤100
N45M	13.8	13.2	1.38	1.32	≥12.2	≥971	≥14	≥1114	47	42	374	334	≤100
N48M	14.3	13.7	1.43	1.37	≥12.5	≥955	≥14	≥1114	50	45	398	358	≤100
N50M	14.6	13.9	1.46	1.39	≥12.5	≥955	≥13	≥1035	52	47	414	374	≤100
N52M	14.8	14.2	1.48	1.42	≥12.5	≥955	≥13	≥1035	53	49	422	390	≤100
N35H	12.5	11.8	1.25	1.18	≥11.0	≥876	≥17	≥1353	38	33	302	263	≤120
N38H	13.0	12.3	1.30	1.23	≥11.5	≥916	≥17	≥1353	41	36	326	287	≤120
N40H	13.2	12.6	1.32	1.26	≥11.8	≥939	≥17	≥1353	43	38	342	302	≤120
N42H	13.7	13.0	1.37	1.30	≥12.1	≥963	≥16	≥1273	46	41	366	326	≤120
N45H	14.0	13.4	1.40	1.34	≥12.5	≥995	≥16	≥1273	48	43	382	342	≤120
N48H	14.2	13.6	1.42	1.36	≥12.7	≥1011	≥16	≥1273	50	45	398	358	≤120
N50H	14.5	13.8	1.45	1.38	≥12.9	≥1026	≥16	≥1273	51	47	406	374	≤120
N52H	14.7	14.0	1.47	1.40	≥13.0	≥1035	≥16	≥1273	53	48	422	382	≤120
N35SH	12.5	11.8	1.25	1.18	≥11.1	≥883	≥20	≥1592	38	33	302	263	≤150
N38SH	13.0	12.3	1.30	1.23	≥11.6	≥923	≥20	≥1592	41	36	326	287	≤150
N40SH	13.2	12.6	1.32	1.26	≥11.8	≥939	≥20	≥1592	43	38	342	302	≤150
N42SH	13.4	12.8	1.34	1.28	≥12.0	≥955	≥19	≥1512	44	39	350	310	≤150
N45SH	13.8	13.2	1.38	1.32	≥12.4	≥987	≥19	≥1512	47	42	374	334	≤150
N48SH	14.2	13.6	1.42	1.36	≥12.7	≥1011	≥19	≥1512	50	45	398	358	≤150
N33UH	12.2	11.4	1.22	1.14	≥10.8	≥859	≥25	≥1990	36	31	287	247	≤180
N35UH	12.5	11.8	1.25	1.18	≥11.2	≥891	≥25	≥1990	38	33	302	263	≤180
N38UH	12.8	12.2	1.28	1.22	≥11.6	≥923	≥25	≥1990	40	36	318	287	≤180
N40UH	13.2	12.6	1.32	1.26	≥12.0	≥966	≥26	≥1990	42	38	334	302	≤180
N42UH	13.5	13.0	1.35	1.30	≥12.0	≥955	≥25	≥1990	44	40	350	318	≤180
N45UH	13.8	13.2	1.38	1.32	≥12.4	≥987	≥26	≥1990	47	42	374	334	≤180
N30EH	11.7	10.9	1.17	1.09	≥10.3	≥820	≥30	≥2388	33	28	263	223	≤200
N33EH	12.0	11.4	1.20	1.14	≥10.8	≥869	≥30	≥2388	35	31	279	247	≤200
N35EH	12.3	11.7	1.23	1.17	≥11.1	≥883	≥30	≥2388	37	33	295	263	≤220
N38EH	12.8	12.2	1.28	1.22	≥11.6	≥923	≥30	≥2388	40	36	318	287	≤220
N40EH	13.1	12.5	1.31	1.25	≥11.8	≥939	≥30	≥2388	42	37	334	295	≤220
N28EHS	11.3	10.5	1.13	1.05	≥10.0	≥780	≥35	≥2786	31	26	247	207	≤230
N30EHS	11.7	10.9	1.17	1.09	≥10.3	≥820	≥35	≥2786	33	28	263	223	≤230
N33EHS	12.0	11.4	1.20	1.14	≥10.8	≥859	≥35	≥2786	36	31	287	247	≤230
N35EHS	12.5	11.7	1.23	1.17	≥11.1	≥883	≥35	≥2786	38	33	302	263	≤230