

# 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 3		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	36	31	286	246	≤80
N38	13.0	12.3	1.30	1.23	≥10.8	≥860	≥12	≥955	39	34	310	270	≤80
N40	13.2	12.6	1.32	1.26	≥10.8	≥860	≥12	≥955	41	36	326	286	≤80
N42	13.5	12.9	1.35	1.29	≥10.8	≥860	≥12	≥955	43	38	342	302	≤80
N45	13.8	13.3	1.38	1.33	≥10.8	≥860	≥12	≥955	46	41	366	326	≤80
N48	14.3	13.7	1.43	1.37	≥10.5	≥836	≥12	≥955	49	44	390	350	≤80
N50	14.6	13.9	1.46	1.39	≥10.5	≥836	≥12	≥955	51	46	405	366	≤80
N52	14.8	14.2	1.48	1.42	≥10.5	≥836	≥12	≥955	53	48	421	382	≤80
N54	15.1	14.4	1.51	1.44	≥10.5	≥836	≥11	≥876	55	50	437	398	≤80
N56	15.2	14.6	1.52	1.46	≥10.5	≥836	≥11	≥876	57	51	453	405	≤80
N35M	12.5	11.8	1.25	1.18	≥11.0	≥860	≥14	≥1114	36	31	286	246	≤100
N38M	13.0	12.3	1.30	1.23	≥11.5	≥876	≥14	≥1114	39	34	310	270	≤100
N40M	13.2	12.6	1.32	1.26	≥11.8	≥910	≥14	≥1114	41	36	326	286	≤100
N42M	13.5	12.9	1.35	1.29	≥12.0	≥938	≥14	≥1114	43	38	342	302	≤100
N45M	13.8	13.3	1.38	1.33	≥12.2	≥971	≥14	≥1114	46	41	366	326	≤100
N48M	14.3	13.7	1.43	1.37	≥12.7	≥1012	≥14	≥1114	49	44	390	350	≤100
N50M	14.6	13.9	1.46	1.39	≥13.0	≥1035	≥14	≥1114	51	46	405	366	≤100
N52M	14.8	14.2	1.48	1.42	≥12.5	≥995	≥13	≥1035	53	48	421	382	≤100
N54M	15.0	14.4	1.50	1.42	≥12.8	≥1015	≥13	≥1035	55	50	437	398	≤100
N56M	15.1	14.6	1.52	1.46	≥12.8	≥1015	≥13	≥1035	57	51	453	405	≤100
N35H	12.5	11.8	1.25	1.18	≥11.0	≥876	≥17	≥1353	36	31	286	246	≤120
N38H	13.0	12.3	1.30	1.23	≥11.5	≥910	≥17	≥1353	39	34	310	270	≤120
N40H	13.2	12.6	1.32	1.26	≥11.8	≥930	≥17	≥1353	41	36	326	286	≤120
N42H	13.7	12.9	1.37	1.29	≥12.1	≥957	≥17	≥1353	43	38	342	302	≤120
N45H	14.0	13.3	1.40	1.33	≥12.5	≥995	≥17	≥1353	46	41	366	326	≤120
N48H	14.2	13.7	1.42	1.37	≥12.8	≥1000	≥16	≥1273	49	44	390	350	≤120
N50H	14.5	13.9	1.45	1.39	≥13.0	≥1035	≥16	≥1273	51	46	405	366	≤120
N52H	14.7	14.2	1.47	1.42	≥13.0	≥1035	≥16	≥1273	53	48	421	382	≤120
N54H	15.0	14.4	1.50	1.44	≥12.8	≥1015	≥16	≥1273	55	50	437	398	≤120
N56H	15.0	14.6	1.50	1.46	≥13.0	≥1035	≥16	≥1273	57	51	453	405	≤120
N35SH	12.5	11.8	1.25	1.18	≥11.1	≥883	≥20	≥1592	36	31	286	246	≤150
N38SH	13.0	12.3	1.30	1.23	≥11.6	≥923	≥20	≥1592	39	34	310	270	≤150
N40SH	13.2	12.6	1.32	1.26	≥11.8	≥939	≥20	≥1592	41	36	326	286	≤150
N42SH	13.4	12.9	1.34	1.29	≥12.0	≥955	≥20	≥1592	43	38	342	302	≤150
N45SH	13.8	13.3	1.38	1.33	≥12.4	≥987	≥20	≥1592	46	41	366	326	≤150
N48SH	14.2	13.7	1.42	1.37	≥12.8	≥1011	≥19	≥1512	49	44	390	350	≤150
N50SH	14.3	13.9	1.43	1.39	≥12.9	≥1026	≥19	≥1512	51	46	405	366	≤150
N52SH	14.5	14.2	1.45	1.42	≥13.7	≥1081	≥19	≥1512	53	48	421	382	≤150
N54SH	14.7	14.4	1.47	1.44	≥13.7	≥1081	≥19	≥1512	55	50	437	398	≤150
N33UH	12.2	11.4	1.22	1.14	≥10.8	≥859	≥25	≥1990	34	29	270	230	≤180
N35UH	12.5	11.8	1.25	1.18	≥11.2	≥891	≥25	≥1990	36	31	286	246	≤180
N38UH	12.8	12.3	1.28	1.23	≥11.6	≥923	≥25	≥1990	39	34	310	270	≤180
N40UH	13.2	12.6	1.32	1.26	≥12.0	≥966	≥25	≥1990	41	36	326	286	≤180
N42UH	13.5	12.9	1.35	1.29	≥12.0	≥955	≥25	≥1990	43	38	342	302	≤180
N45UH	13.8	13.3	1.38	1.33	≥12.4	≥987	≥24	≥1911	46	41	366	326	≤180
N30EH	11.7	10.8	1.17	1.08	≥10.3	≥820	≥30	≥2388	31	26	246	206	≤200
N33EH	12.0	11.4	1.20	1.14	>10.8	≥869	≥30	≥2388	34	29	270	230	≤200
N35EH	12.3	11.8	1.23	1.18	≥11.1	≥883	≥30	≥2388	36	31	286	246	≤200
N38EH	12.8	12.2	1.28	1.22	≥11.6	≥923	≥30	≥2388	39	34	310	270	≤200
N40EH	13.1	12.5	1.31	1.25	≥11.8	≥939	≥30	≥2388	41	36	326	286	≤200
N42EH	13.4	12.8	1.34	1.28	≥12.2	≥971	≥29	≥2308	43	38	342	302	≤200
N28EHS	11.3	10.5	1.13	1.05	≥10.0	≥780	≥35	≥2786	29	24	230	191	≤230
N30EHS	11.7	10.8	1.17	1.09	≥10.3	≥820	≥35	≥2786	31	26	246	206	≤230
N33EHS	12.0	11.4	1.20	1.14	≥10.8	≥859	≥35	≥2786	34	28	270	222	≤230
N35EHS	12.5	11.8	1.23	1.17	≥11.1	≥883	≥35	≥2786	36	31	286	246	≤230
N38EHS	12.8	12.2	1.28	1.22	≥11.6	≥923	≥33	≥2627	39	34	310	270	≤230