Magnetic Properties of Sintered NdFeB Magnets

Grade	Remanence(Br)		Coercivity Force(Hcb)		Intrinsic Coercive		Max. Energy Product(BHmax)		Maximum Operating Temp.
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m3	MGOe	
N35	1170-1220	11.7-12.2	≥868	≥10.9	≥955	≥12	263-287	33-36	80 ℃
N38	1220-1250	12.2-12.5	≥899	≥11.3	≥955	≥12	287-310	36-39	80 ℃
N40	1250-1280	12.5-12.8	≥907	≥11.4	≥955	≥12	302-326	38-41	80 ℃
N42	1280-1320	12.8-13.2	≥915	≥11.5	≥955	≥12	318-342	40-43	80 ℃
N45	1320-1380	13.2-13.8	≥923	≥11.6	≥955	≥12	342-366	43-46	80 ℃
N48	1380-1420	13.8-14.2	≥923	≥11.6	≥876	≥12	366-390	46-49	80 ℃
N50	1400-1450	14.0-14.5	≥796	≥10.0	≥876	≥11	382-406	48-51	60 ℃
N52	1430-1480	14.3-14.8	≥796	≥10.0	≥876	≥11	398-422	50-53	60 ℃
35M	1170-1220	11.7-12.2	≥868	≥10.9	≥1114	≥14	263-287	33-36	100 ℃
38M	1220-1250	12.2-12.5	≥899	≥11.3	≥1114	≥14	287-310	36-39	100 ℃
40M	1250-1280	12.5-12.8	≥923	≥11.6	≥1114	≥14	302-326	38-41	100 ℃
42M	1280-1320	12.8-13.2	≥955	≥12.0	≥1114	≥14	318-342	40-43	100 ℃
45M	1320-1380	13.2-13.8	≥995	≥12.5	≥1114	≥14	342-366	43-46	100 ℃
48M	1360-1430	13.6-14.3	≥1027	≥12.9	≥1114	≥14	366-390	46-49	100 ℃
50M	1400-1450	14.0-14.5	≥1033	≥13.0	≥1114	≥14	382-406	48-51	100 ℃
33H	1130-1170	11.3-11.7	≥836	≥10.5	≥1353	≥17	247-271	31-34	120 ℃
35H	1170-1220	11.7-12.2	≥868	≥10.9	≥1353	≥17	263-287	33-36	120 ℃
38H	1220-1250	12.2-12.5	≥899	≥11.3	≥1353	≥17	287-310	36-39	120 ℃
40H	1250-1280	12.5-12.8	≥923	≥11.6	≥1353	≥17	302-326	38-41	120 ℃
42H	1280-1320	12.8-13.2	≥955	≥12.0	≥1353	≥17	318-342	40-43	120 ℃
45H	1300-1360	13-13.6	≥963	≥12.1	≥1353	≥17	326-358	43-46	120 ℃
48H	1370-1430	13.7-14.3	≥995	≥12.5	≥1353	≥17	366-390	46-49	120 ℃
30SH	1080-1130	10.8-11.3	≥804	≥10.1	≥1592	≥20	223-247	28-31	150 ℃
33SH	1130-1170	11.3-11.7	≥844	≥10.6	≥1592	≥20	247-271	31-34	150 ℃
35SH	1170-1220	11.7-12.2	≥876	≥11.0	≥1592	≥20	263-287	33-36	150 ℃
38SH	1220-1250	12.2-12.5	≥907	≥11.4	≥1592	≥20	287-310	36-39	150 ℃
40SH	1240-1280	12.5-12.8	≥939	≥11.8	≥1592	≥20	302-326	38-41	150 ℃
42SH	1280-1320	12.8-13.2	≥987	≥12.4	≥1592	≥20	318-342	40-43	150 ℃
45SH	1320-1380	13.2-13.8	≥1003	≥12.6	≥1592	≥20	342-366	43-46	150 ℃
28UH	1020-1080	10.2-10.8	≥764	≥9.6	≥1990	≥25	207-231	26-29	180 ℃
30UH	1080-1130	10.8-11.3	≥812	≥10.2	≥1990	≥25	223-247	28-31	180 ℃
33UH	1130-1170	11.3-11.7	≥852	≥10.7	≥1990	≥25	247-271	31-34	180 ℃
35UH	1180-1220	11.8-12.2	≥860	≥10.8	≥1990	≥25	263-287	33-36	180 ℃
38UH	1220-1250	12.2-12.5	≥876	≥11.0	≥1990	≥25	287-310	36-39	180 ℃
40UH	1240-1280	12.5-12.8	≥899	≥11.3	≥1990	≥25	302-326	38-41	180 ℃
28EH	1040-1090	10.4-10.9	≥780	≥9.8	≥2388	≥30	207-231	26-29	200 ℃
30EH	1080-1130	10.8-11.3	≥812	≥10.2	≥2388	≥30	223-247	28-31	200 ℃
33EH	1130-1170	11.3-11.7	≥836	≥10.5	≥2388	≥30	247-271	31-34	200 ℃
35EH	1170-1220	11.7-12.2	≥876	≥11.0	≥2388	≥30	263-287	33-36	200 ℃
38EH	1220-1250	12.2-12.5	≥899	≥11.3	≥2388	≥30	287-310	36-39	200 ℃

Magnetic Properties of Compression Bonded NdFeB Magnets

Grade	Remanence(Br)		Coercivity Force(Hcb)		Intrinsic Coercive		Max. Energy Product(BHmax)		Maximum Operating Temp.
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m3	MGOe	
CN-4	400-500	4.0-5.0	240-320	3.0-4.0	560-720	7.0-9.0	32-48	4.0-6.0	160 ℃
CN-6	500-600	5.0-6.0	320-400	4.0-5.0	560-720	7.0-9.0	48-60	6.0-7.5	160 ℃
CN-8	600-680	6.0-6.8	360-440	4.5-5.5	640-800	8.0-10.0	60-72	7.5-9.0	160 ℃
CN-8L	600-680	6.0-6.8	400-480	5.0-6.0	640-800	8.0-10.0	64-72	8.0-9.0	160 ℃
CN-8H	600-660	6.0-6.6	400-480	5.0-6.0	1040-1360	13.0-17.0	64-72	8.0-9.0	180 ℃
CN-10	680-730	6.8-7.3	400-480	5.0-6.0	640-800	8.0-10.0	76-84	9.5-10.5	160 ℃
CN-10H	700-750	7.0-7.5	440-520	5.5-6.5	640-800	8.0-10.0	80-88	10.0-11.0	160 ℃
CN-12	720-770	7.2-7.7	440-520	5.5-6.5	720-800	9.0-10.0	88-96	11.0-12.0	160 ℃
CN-12D	720-770	7.2-7.7	440-520	5.5-6.5	720-880	9.0-11.0	88-96	11.0-12.0	160 ℃
CN-12H	740-800	7.4-8.0	440-520	5.5-6.5	760-880	9.5-11.0	88-96	11.0-12.0	160 ℃
CN-12L	760-810	7.6-8.1	400-480	5.0-6.0	480-640	6.0-8.0	88-96	11.0-12.0	150 ℃

Magnetic Properties of Injection Bonded NdFeB Magnets

Grade	Remanence(Br)		Coercivity Force(Hcb)		Intrinsic Coercive		Max. Energy Product(BHmax)		Maximum Operating Temp.	Binder
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m3	MGOe		
NdPA12-2	200-400	2.0-4.0	120-240	1.5-3.0	560-720	7.0-9.0	6.4-24	0.8-3.0	120 ℃	PA12
NdPA12-4	400-490	4.0-4.9	247-310	3.1-3.9	573-732	7.2-9.2	28-36	3.5-4.5	120 ℃	PA12
NdPA12-6	490-570	4.9-5.7	312-382	3.9-4.8	637-796	8.0-10.0	42-56	5.2-7.0	120 ℃	PA12
NdPA12-8	570-630	5.7-6.3	382-430	4.8-5.4	676-835	8.5-10.5	59-67	7.4-8.4	120 ℃	PA12
NdPA12-6H	480-560	4.8-5.6	334-398	4.2-5.0	1035-1353	13.0-17.0	40-52	5.0-6.5	120 ℃	PA12
NdPPS-4	452	4.52	300	3.77	671	8.43	35	4.4	180 ℃	PPS