

Magnetic Properties of Sintered NdFeB Magnets



Grade	Remanence (Br)		Coercivity Force (Hcb)		Intrinsic Coercive Force (Hcj)		Max. Energy Product (BHmax)		Maximum Operating Temp.
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MG0e	
N35	1170-1220	11.7-12.2	≥868	≥10.9	≥955	≥12	263-287	33-36	80 °C
N38	1220-1250	12.2-12.5	≥899	≥11.3	≥955	≥12	287-310	36-39	80 °C
N40	1250-1280	12.5-12.8	≥907	≥11.4	≥955	≥12	302-326	38-41	80 °C
N42	1280-1320	12.8-13.2	≥915	≥11.5	≥955	≥12	318-342	40-43	80 °C
N45	1320-1380	13.2-13.8	≥923	≥11.6	≥955	≥12	342-366	43-46	80 °C
N48	1380-1420	13.8-14.2	≥923	≥11.6	≥876	≥12	366-390	46-49	80 °C
N50	1400-1450	14.0-14.5	≥796	≥10.0	≥876	≥11	382-406	48-51	60 °C
N52	1430-1480	14.3-14.8	≥796	≥10.0	≥876	≥11	398-422	50-53	60 °C
35M	1170-1220	11.7-12.2	≥868	≥10.9	≥1114	≥14	263-287	33-36	100 °C
38M	1220-1250	12.2-12.5	≥899	≥11.3	≥1114	≥14	287-310	36-39	100 °C
40M	1250-1280	12.5-12.8	≥923	≥11.6	≥1114	≥14	302-326	38-41	100 °C
42M	1280-1320	12.8-13.2	≥955	≥12.0	≥1114	≥14	318-342	40-43	100 °C
45M	1320-1380	13.2-13.8	≥995	≥12.5	≥1114	≥14	342-366	43-46	100 °C
48M	1360-1430	13.6-14.3	≥1027	≥12.9	≥1114	≥14	366-390	46-49	100 °C
50M	1400-1450	14.0-14.5	≥1033	≥13.0	≥1114	≥14	382-406	48-51	100 °C
33H	1130-1170	11.3-11.7	≥836	≥10.5	≥1353	≥17	247-271	31-34	120 °C
35H	1170-1220	11.7-12.2	≥868	≥10.9	≥1353	≥17	263-287	33-36	120 °C
38H	1220-1250	12.2-12.5	≥899	≥11.3	≥1353	≥17	287-310	36-39	120 °C
40H	1250-1280	12.5-12.8	≥923	≥11.6	≥1353	≥17	302-326	38-41	120 °C
42H	1280-1320	12.8-13.2	≥955	≥12.0	≥1353	≥17	318-342	40-43	120 °C
45H	1300-1360	13-13.6	≥963	≥12.1	≥1353	≥17	326-358	43-46	120 °C
48H	1370-1430	13.7-14.3	≥995	≥12.5	≥1353	≥17	366-390	46-49	120 °C
30SH	1080-1130	10.8-11.3	≥804	≥10.1	≥1592	≥20	223-247	28-31	150 °C
33SH	1130-1170	11.3-11.7	≥844	≥10.6	≥1592	≥20	247-271	31-34	150 °C
35SH	1170-1220	11.7-12.2	≥876	≥11.0	≥1592	≥20	263-287	33-36	150 °C
38SH	1220-1250	12.2-12.5	≥907	≥11.4	≥1592	≥20	287-310	36-39	150 °C
40SH	1240-1280	12.5-12.8	≥939	≥11.8	≥1592	≥20	302-326	38-41	150 °C
42SH	1280-1320	12.8-13.2	≥987	≥12.4	≥1592	≥20	318-342	40-43	150 °C
45SH	1320-1380	13.2-13.8	≥1003	≥12.6	≥1592	≥20	342-366	43-46	150 °C
28UH	1020-1080	10.2-10.8	≥764	≥9.6	≥1990	≥25	207-231	26-29	180 °C
30UH	1080-1130	10.8-11.3	≥812	≥10.2	≥1990	≥25	223-247	28-31	180 °C
33UH	1130-1170	11.3-11.7	≥852	≥10.7	≥1990	≥25	247-271	31-34	180 °C
35UH	1180-1220	11.8-12.2	≥860	≥10.8	≥1990	≥25	263-287	33-36	180 °C
38UH	1220-1250	12.2-12.5	≥876	≥11.0	≥1990	≥25	287-310	36-39	180 °C
40UH	1240-1280	12.5-12.8	≥899	≥11.3	≥1990	≥25	302-326	38-41	180 °C
28EH	1040-1090	10.4-10.9	≥780	≥9.8	≥2388	≥30	207-231	26-29	200 °C
30EH	1080-1130	10.8-11.3	≥812	≥10.2	≥2388	≥30	223-247	28-31	200 °C
33EH	1130-1170	11.3-11.7	≥836	≥10.5	≥2388	≥30	247-271	31-34	200 °C
35EH	1170-1220	11.7-12.2	≥876	≥11.0	≥2388	≥30	263-287	33-36	200 °C
38EH	1220-1250	12.2-12.5	≥899	≥11.3	≥2388	≥30	287-310	36-39	200 °C

Magnetic Properties of Sintered Ferrite Magnets



Grade	Remanence (Br)		Coercivity Force (Hcb)		Intrinsic Coercive Force (Hcj)		Max. Energy Product (BHmax)		Maximum Operating Temp.
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
Y10T	≥200	≥2000	≥125	≥1600	≥210	≥2600	≥6.5	≥0.8	250 °C
Y20	≥360	≥3600	≥135	≥1700	≥140	≥1760	≥20.0	≥2.5	250 °C
Y25	≥380	≥3800	≥144	≥1800	≥150	≥1880	≥24.0	≥3.0	250 °C
Y30	≥390	≥3900	≥184	≥2300	≥188	≥2350	≥27.6	≥3.4	250 °C
Y30BH	≥390	≥3900	≥240	≥3000	≥256	≥3200	≥27.6	≥3.4	250 °C
Y35	≥410	≥4100	≥208	≥2600	≥212	≥2660	≥30.4	≥3.8	250 °C

Magnetic Properties of Sintered ALNICO Magnets



Grade	Remanence (Br)		Coercivity Force (Hcb)		Intrinsic Coercive Force (Hcj)		Max. Energy Product (BHmax)		Maximum Operating Temp.
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
FLN8	520	5.2	40.00	0.5	43	0.54	8-10	1.0-1.25	450 °C
FLNG12	700	7	40.00	0.5	43	0.54	12-14	1.5-1.75	450 °C
FLNGT14	570	5.7	76.00	0.95	78	0.98	14-16	1.75-2.0	450 °C
FLNGT18	560	5.6	88.00	1.1	90	1.13	18-22	2.25-2.75	550 °C
FLNG28	1050	10.5	46.00	0.58	47	0.59	28-33	3.5-4.15	525 °C
FLNG34	1100	11	50.00	0.63	51	0.64	34-38	4.3-4.8	525 °C
FLNGT28	1000	10	56.00	0.7	57	0.71	28-30	3.5-3.8	550 °C
FLNGT31	780	7.8	104.00	1.3	90	1.13	31-36	3.9-4.5	550 °C
FLNG33J	650	6.5	135.00	1.7	150	1.88	33-36	4.15-4.5	550 °C
FLNGT38	800	8	123.00	1.55	126	1.58	38-42	4.75-5.3	550 °C
FLNGT42	880	8.8	120.00	1.5	122	1.53	42-48	5.3-6.0	550 °C

Magnetic Properties of Sintered SmCo Magnets



Type	Grade	Remanence (Br)		Coercivity Force (Hcb)		Intrinsic Coercive Force (Hcj)		Max. Energy Product (BHmax)		Maximum Operating Temp.
		mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	
SmCo5	YX-18	850-900	8.5-9.0	660-700	8.3-8.8	1194-1830	15-23	127-143	16-18	250 °C
	YX-20	900-940	9.0-9.4	676-725	8.5-9.1	1194-1830	15-23	150-167	19-21	250 °C
	YX-22	920-960	9.2-9.6	710-748	8.9-9.4	1194-1830	15-23	160-175	20-22	250 °C
	YX-24	960-1000	9.6-10.0	730-770	9.2-9.7	1194-1830	15-23	175-190	22-24	250 °C
Sm2Co17	YXG-24	950-1020	9.5-10.2	637-732	8.0-9.2	1433-1990	18-25	175-190	22-24	300 °C
	YXG-26	1020-1050	10.2-10.5	748-796	9.4-10.0	1433-1990	18-25	195-215	24-26	300 °C
	YXG-28	1050-1080	10.5-10.8	756-796	9.5-10.0	1433-1990	18-25	205-220	26-28	300 °C
	YXG-30	1080-1100	10.8-11.0	788-835	9.9-10.5	1433-1990	18-25	220-240	28-30	300 °C