Physikalische Magnetdaten

Neodym-Magnete

Güte	Remanenz		Koerzitivfeldstärke				Energie-produkt		max. Einsatz-temp.
	Br		bHc		iHc		(BxH)max		
	Gauss (G)	Tesla (T)	kOe	kA/m	kOe	kA/m	MGOe	kJ/m³	°C
N30	10800-11200	1.08-1.12	9.8-10.5	780-836	≥12	≥955	28-30	223-239	≤80
N33	11400-11700	1.14-1.17	10.3-11	820-876	≥12	≥955	31-33	247-263	≤80
N35	11700-12100	1.17-1.21	10.8-11.5	860-915	≥12	≥955	33-35	263-279	≤80
N38	12200-12600	1.22-1.26	10.8-11.5	860-915	≥12	≥955	36-38	287-303	≤80
N40	12600-12900	1.26-1.29	10.5-12.0	860-955	≥12	≥955	38-40	303-318	≤80
N42	12900-13200	1.29-1.32	10.8-12.0	860-955	≥12	≥955	40-42	318-334	≤80
N45	13200-13700	1.32-1.37	10.8-12.5	860-995	≥12	≥955	43-45	342-358	≤80
N48	13700-14200	1.37-1.42	10.8-12.5	860-995	≥12	≥955	45-48	358-382	≤80
N50	14000-14600	1.40-1.46	10.8-12.5	860-995	≥12	≥955	47-51	374-406	≤80
N52	14200-14700	1.42-1.47	10.8-12.5	860-995	≥12	≥955	48-53	380-422	≤65
30M	10800-11200	1.08-1.12	9.8-10.5	780-836	≥14	≥1114	28-30	223-239	≤100
33M	11400-11700	1.14-1.17	10.3-11	820-876	≥14	≥1114	31-33	247-263	≤100
35M	11700-12100	1.17-1.21	10.8-11.5	860-915	≥14	≥1114	33-35	263-279	≤100
38M	12200-12600	1.22-1.26	10.8-11.5	860-915	≥14	≥1114	36-38	287-303	≤100
40M	12600-12900	1.26-1.29	10.8-12	860-955	≥14	≥1114	38-40	303-318	≤100
42M	12900-13200	1.29-1.32	10.8-12.5	860-995	≥14	≥1114	40-42	318-334	≤100
45M	13200-13700	1.32-1.37	10.8-13	860-1035	≥14	≥1114	43-45	342-358	≤100
48M	13700-14200	1.37-1.42	10.8-12.5	860-995	≥14	≥1114	45-48	358-382	≤100
50M	14000-14600	1.40-1.46	10.8-12.5	860-995	≥14	≥1114	47-51	374-406	≤100

27H	10200-10600	1.02-1.06	9.5-10.1	756-804	≥17	≥1353	25-27	199-215	≤120
30H	10800-11200	1.08-1.12	10.1-10.6	804-844	≥17	≥1353	28-30	223-239	≤120
33H	11400-11700	1.14-1.17	10.3-11	820-876	≥17	≥1353	31-33	247-263	≤120
35H	11700-12100	1.17-1.21	10.8-11.5	860-915	≥17	≥1353	33-35	263-279	≤120
38H	12200-12600	1.22-1.26	10.8-11.5	860-915	≥17	≥1353	36-38	287-303	≤120
40H	12600-12900	1.26-1.29	10.8-12	860-955	≥17	≥1353	38-40	303-318	≤120
42H	12900-13200	1.29-1.32	10.8-12	860-955	≥17	≥1353	40-42	318-334	≤120
44H	13200-13600	1.32-1.36	10.8-13	860-1035	≥17	≥1353	42-44	334-350	≤120
48H	13700-14200	1.37-1.42	10.8-12.5	860-995	≥17	≥1353	45-48	358-382	≤120
27SH	10200-10600	1.02-1.06	9.5-10.1	756-804	≥20	≥1592	25-27	199-215	≤150
30SH	10800-11200	1.08-1.12	10.1-10.6	804-844	≥20	≥1592	28-30	223-239	≤150
33SH	11400-11700	1.14-1.17	10.3-11	820-876	≥20	≥1592	31-33	247-263	≤150
35SH	11700-12100	1.17-1.21	10.8-11.5	860-915	≥20	≥1592	33-35	263-279	≤150
38SH	12200-12600	1.22-1.26	10.8-11.5	860-915	≥20	≥1592	36-38	287-303	≤150
40SH	12600-12900	1.26-1.29	10.8-12.0	860-955	≥20	≥1592	38-40	303-318	≤150
42SH	12900-13200	1.29-1.32	10.8-12	860-955	≥20	≥1592	40-42	318-334	≤150
45SH	13200-13700	1.32-1.37	10.8-12.5	860-955	≥20	≥1592	43-45	342-358	≤150
25UH	9800-10200	0.98-1.02	9.2-9.6	732-764	≥25	≥1990	23-25	183-199	≤180
28UH	10400-10800	1.04-1.08	9.8-10.2	780-812	≥25	≥1990	26-28	207-233	≤180
30UH	10800-11200	1.08-1.12	10.1-10.6	804-844	≥25	≥1990	28-30	223-239	≤180
33UH	11400-11700	1.14-1.17	10.3-11	820-876	≥25	≥1990	31-33	247-263	≤180
35UH	11700-12100	1.17-1.21	10.8-11.5	860-915	≥25	≥1990	33-35	263-279	≤180
38UH	12200-12600	1.22-1.26	10.8-11.5	860-915	≥25	≥1990	36-38	287-303	≤180
40UH	12600-12900	1.26-1.29	10.5-12.0	860-955	≥25	≥1990	38-40	303-318	≤180
25EH	9800-10200	0.98-1.02	9.2-9.6	732-764	≥30	≥2388	23-25	183-199	≤200
28EH	10400-10800	1.04-1.08	9.8-10.2	780-812	≥30	≥2388	26-28	207-223	≤200

30EH	10800-11200	1.08-1.12	10.1-10.6	804-844	≥30	≥2388	28-30	223-239	≤200
33EH	11400-11700	1.14-1.17	10.3-11	820-876	≥30	≥2388	31-33	247-263	≤200
35EH	11700-12100	1.17-1.21	10.8-11.5	860-915	≥30	≥2388	33-35	263-279	≤200
38EH	12200-12500	1.22-1.25	≥11.3	≥899	≥30	≥2388	36-39	287-310	≤200
40EH	12500-12800	1.25-1.28	≥11.6	≥923	≥30	≥2388	38-41	302-326	≤200
42EH	12800-13200	1.28-1.32	≥11.7	≥931	≥30	≥2388	40-43	318-342	≤200
28AH	10400-10800	1.04-1.08	≥9.9	≥787	≥33	≥2624	26-29	207-231	≤230
30AH	10800-11300	1.08-1.13	≥10.3	≥819	≥33	≥2624	28-31	223-247	≤230
33AH	11300-11700	1.13-1.17	≥10.6	≥843	≥33	≥2624	31-34	247-271	≤230
35AH	11700-12200	1.17-1.22	≥11.0	≥876	≥33	≥2624	33-36	263-287	≤230
38AH	12200-12500	1.22-1.25	≥11.3	≥899	≥33	≥2624	36-39	287-310	≤230
40AH	12500-12800	1.25-1.28	≥11.6	≥923	≥33	≥2624	38-41	302-326	≤230

Ferrit-Magnete

Güte	Remanenz		Koerzitivfeldstärke				Energie-produkt		max. Einsatz-temp.
	Br		bHc		iHc		(BxH)max		
	Gauss (G)	Tesla (T)	kOe	kA/m	kOe	kA/m	MGOe	kJ/m³	°C
Y35	4000-4100	0.40-0.41	2.20-2.45	175-195	2.26-2.51	180-200	3.8-4.0	30.0-32.0	≤250

Magnetbänder und -folien

Artikel	Remanenz		Koerzitivfeldstärke				Energie-produkt		max. Einsatz-temp.
	Br		bHc		iHc		(BxH)max		
	Gauss (G)	Tesla (T)	kOe	kA/m	kOe	kA/m	MGOe	kJ/m³	°C

MT-XX	2300-2600	0.23-0.26	2.1-2.3	167-183	2.4-3.5	191-278	1.3-1.6	10.4-12.8	≤80
MT-XX-STIC	2100-2400	0.21-0.24	1.7-2.0	135-160	2.3-3.2	184-255	1.0-1.2	8.0-9.6	≤80
MT-DISP	1600-2100	0.16-0.21	1.3-1.7	104-135	2.1-3.0	167-239	0.6-0.8	4.8-6.4	≤80
MS-XX	2300-2600	0.23-0.26	2.1-2.3	167-183	2.4-3.5	191-278	1.3-1.6	10.4-12.8	≤80
MS-XX-STIC	2100-2400	0.21-0.24	1.7-2.0	135-160	2.3-3.2	184-255	1.0-1.2	8.0-9.6	≤80
CP-XXXX	1600-2100	0.16-0.21	1.3-1.7	104-135	2.1-3.0	167-239	0.6-0.8	4.8-6.4	≤80
NMT-XX	4800-5800	0.48-0.58	3.7-4.7	290-380	8-10	630-800	5.5-6.5	44-52	≤120
NMS-XX	4800-5800	0.48-0.58	3.7-4.7	290-380	8-10	630-800	5.5-6.5	44-52	≤120

Die oben erwähnten magnetischen Parameter und physikalische Eigenschaften sind Richtwerte und gelten bei Raumtemperatur.

Die maximale Einsatztemperatur der Magnete ist abhängig vom Verhältnis des Durchmessers zur Dicke und weiteren Umwelteinflüssen. Wie heiss dürfen Magnete werden?

Quelle: https://www.supermagnete.ch/data_table.php