

Chart of Material Properties

N Grade Magnets						
No	Grade	Br (kGs)	Hcb (kOe)	Hcj (kOe)	(BH) max (MGOe)	Tw (°C)
1	N55	14.7-15.3	≥10.8	≥11	52-56	80
2	N52	14.3-14.8	≥10.8	≥12	50-53	80
3	N50	14.0-14.5	≥10.8	≥12	48-51	80
4	N48	13.8-14.2	≥10.5	≥12	46-49	80
5	N45	13.2-13.8	≥11.0	≥12	43-46	80
6	N42	12.8-13.2	≥11.6	≥12	40-43	80
7	N40	12.5-12.8	≥11.6	≥12	38-41	80
8	N38	12.2-12.5	≥11.3	≥12	36-39	80
9	N35	11.7-12.2	≥10.9	≥12	33-36	80
10	N33	11.3-11.8	≥10.5	≥12	31-34	80
11	N30	10.8-11.3	≥10.0	≥12	28-31	80

M Grade Magnets						
No	Grade	Br (kGs)	Hcb (kOe)	Hcj (kOe)	(BH) max (MGOe)	Tw (°C)
1	N52M	14.3-14.8	≥13.0	≥14	50-53	100
2	N50M	14.0-14.5	≥13.0	≥14	48-51	100
3	N48M	13.8-14.3	≥12.9	≥14	46-49	100
4	N45M	13.3-13.8	≥12.5	≥14	43-46	100
5	N42M	12.8-13.3	≥12.0	≥14	40-43	100
6	N40M	12.5-12.8	≥11.6	≥14	38-41	100
7	N38M	12.2-12.5	≥11.3	≥14	36-39	100
8	N35M	11.7-12.2	≥10.9	≥14	33-36	100
9	N33M	11.3-11.8	≥10.5	≥14	31-34	100
10	N30M	10.8-11.3	≥10.0	≥14	28-31	100

H Grade Magnets						
No	Grade	Br (kGs)	Hcb (kOe)	Hcj (kOe)	(BH) max (MGOe)	Tw (°C)
1	N52H	14.2-14.7	≥13.2	≥17	50-53	120
2	N50H	14.0-14.5	≥13.0	≥17	48-51	120
3	N48H	13.8-14.3	≥13.0	≥17	46-49	120
4	N45H	13.3-13.8	≥12.7	≥17	43-46	120
5	N42H	12.8-13.3	≥12.5	≥17	40-43	120
6	N40H	12.5-12.8	≥11.8	≥17	38-41	120
7	N38H	12.2-12.5	≥11.3	≥17	36-39	120
8	N35H	11.7-12.2	≥11.0	≥17	33-36	120
9	N33H	11.3-11.8	≥10.6	≥17	31-34	120
10	N30H	10.8-11.3	≥10.2	≥17	28-31	120

SH Grade Magnets						
No	Grade	Br (kGs)	Hcb (kOe)	Hcj (kOe)	(BH) max (MGOe)	Tw (°C)
1	N52SH	14.3-14.5	≥13.3	≥20	51-54	150
2	N50SH	14.0-14.5	≥13.0	≥20	48-51	150
3	N48SH	13.7-14.3	≥12.6	≥20	46-49	150
4	N45SH	13.3-13.7	≥12.5	≥20	43-46	150
5	N42SH	12.8-13.4	≥12.1	≥20	40-43	150
6	N40SH	12.6-13.1	≥11.9	≥20	38-41	150
7	N38SH	12.2-12.9	≥11.7	≥20	36-39	150
8	N35SH	11.7-12.4	≥11.0	≥20	33-36	150
9	N33SH	11.3-11.7	≥10.6	≥20	31-34	150
10	N30SH	10.8-11.3	≥10.1	≥20	28-31	150

UH Grade Magnets						
No	Grade	Br (kGs)	Hcb (kOe)	Hcj (kOe)	(BH) max (MGOe)	Tw (°C)
1	N45UH	13.1-13.6	≥12.2	≥25	43-46	180
2	N42UH	12.8-13.4	≥12.0	≥25	40-43	180
3	N40UH	12.6-13.1	≥11.8	≥25	38-41	180
4	N38UH	12.2-12.9	≥11.5	≥25	36-39	180
5	N35UH	11.7-12.4	≥11.0	≥25	33-36	180
6	N33UH	11.4-12.1	≥10.6	≥25	31-34	180
7	N30UH	10.8-11.3	≥10.5	≥25	28-31	180
8	N28UH	10.5-10.8	≥9.6	≥25	26-30	180

EH Grade Magnets						
No	Grade	Br (kGs)	Hcb (kOe)	Hcj (kOe)	(BH) max (MGOe)	Tw (°C)
1	N42EH	12.8-13.2	≥12.0	≥30	40-43	200
2	N40EH	12.4-13.1	≥11.8	≥30	38-41	200
3	N38EH	12.2-12.7	≥11.5	≥30	36-39	200
4	N35EH	11.7-12.4	≥11.0	≥30	33-36	200
5	N33EH	11.4-12.1	≥10.8	≥30	31-34	200
6	N30EH	10.8-11.5	≥10.2	≥30	28-31	200
7	N28EH	10.4-10.9	≥9.8	≥30	26-29	200

AH Grade Magnets						
No	Grade	Br (kGs)	Hcb (kOe)	Hcj (kOe)	(BH) max (MGOe)	Tw (°C)
1	N38AH	12.2-12.5	≥11.4	≥35	36-39	240
2	N35AH	11.6-12.3	≥10.9	≥35	33-36	240
3	N33AH	11.4-12.1	≥10.7	≥35	31-34	240
4	N30AH	10.8-11.5	≥10.2	≥35	28-31	240