

MAGNETIC PROPERTIES OF SINTERED NEODYMIUM MAGNET

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	