

Grade & Magnetic Properties of Sintered Neodymium Magnet

Magnetic Properties of N-series Magnet

Grade 性能	剩磁感应强 Remanence, Br		矫顽力 Coercivity, H _{cb}		内禀矫顽力 Intrinsic Coercivity, H _{ci}		最大磁能积 Maximum Energy Product, (BH) _{max}		最高工作温 度Working Temp.,
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	Celsius °C
N55	1470-1520	14.7-15.3	≥860	≥10.8	≥876	≥11	414-438	52-56	70
N52	1430-1480	14.3-14.8	≥860	≥10.8	≥876	≥11	398-422	50-53	70
N50	1400-1450	14.0-14.5	≥860	≥10.8	≥960	≥12	382-406	48-51	70
N48	1380-1420	13.8-14.2	≥836	≥10.5	≥900	≥11	366-390	46-49	80
N45	1380-1420	13.2-13.8	≥876	≥11.0	≥960	≥12	342-366	43-46	80
N42	1280-1320	12.8-13.2	≥923	≥11.6	≥960	≥12	318-342	40-43	80
N40	1250-1280	12.5-12.8	≥923	≥11.6	≥960	≥12	302-326	38-41	80
N38	1220-1250	12.2-12.5	≥899	≥11.3	≥960	≥12	287-310	36-39	80
N35	1170-1210	11.7-12.2	≥868	≥10.9	≥960	≥12	263-287	33-36	80
N33	1130-1180	11.3-11.8	≥836	≥10.5	≥960	≥12	247-270	31-34	80
N30	1080-1130	10.8-11.3	≥796	≥10	≥960	≥12	223-247	28-31	80

Magnetic Properties of M-series Magnet									
Grade 性能	剩磁感应强 Remanence, Br		矫顽力 Coercivity, H _{cb}		内禀矫顽力 Intrinsic Coercivity, H _{ci}		最大磁能积 Maximum Energy Product, (BH) _{max}		最高工作温 度 Working Temp.,
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	Celsius °C
N52M	1430-1480	14.3-14.8	≥1035	≥13.0	≥1114	≥14	398-414	50-52	100
N50M	1400-1450	14.0-14.5	≥1035	≥13.0	≥1114	≥14	382-406	48-51	100
N48M	1360-1430	13.7-14.3	≥1027	≥12.9	≥1114	≥14	366-390	46-49	100
N45M	1320-0380	13.2-13.8	≥995	≥12.5	≥1114	≥14	342-366	43-46	100
N42M	1280-1320	12.8-13.2	≥955	≥12.0	≥1114	≥14	318-342	40-43	100
N40M	1250-1280	12.5-12.8	≥923	≥11.6	≥1114	≥14	302-326	38-41	100
N38M	1220-1250	12.2-12.5	≥899	≥11.3	≥1114	≥14	287-310	36-39	100
N35M	1170-1220	11.7-12.2	≥868	≥10.9	≥1114	≥14	263-287	33-36	100
N33M	1130-1180	11.3-11.8	≥836	≥10.5	≥1114	≥14	247-270	31-34	100
N30M	1080-1130	10.8-11.3	≥796	≥10	≥1114	≥14	223-247	28-31	100

Magnetic Properties of H-series Magnet									
Grade 性能	剩磁感应强 Remanence, Br		矫顽力 Coercivity, H _{cb}		内禀矫顽力 Intrinsic Coercivity, H _{cj}		最大磁能积 Maximum Energy Product, (BH) _{max}		最高工作温 度Working Temp.,
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	Celsius °C
N50H	1400-1450	14.0-14.5	≥1035	≥13.0	≥1274	≥16	382-406	48-51	120
N48H	1370-1430	13.7-14.3	≥1035	≥13.0	≥1274	≥16	366-390	46-49	120
N46H	1330-1380	13.3-13.8	≥1018	≥12.8	≥1274	≥16	350-374	44-47	120
N45H	1330-1380	13.3-13.8	≥1010	≥12.7	≥1353	≥17	342-366	43-46	120
N44H	1310-1360	13.1-13.8	≥1003	≥12.6	≥1353	≥17	326-358	42-45	120
N42H	1280-1320	12.8-13.2	≥995	≥12.5	≥1353	≥17	318-342	40-43	120
N40H	1250-1280	12.5-12.8	≥940	≥11.8	≥1353	≥17	302-326	38-41	120
N38H	1220-1250	12.2-12.5	≥899	≥11.3	≥1353	≥17	287-310	36-39	120
N35H	1170-1220	11.7-12.2	≥876	≥11.0	≥1353	≥17	263-287	33-36	120
N33H	1130-1180	11.3-11.8	≥844	≥10.6	≥1353	≥17	247-271	31-34	120
N30H	1080-1130	10.8-11.3	≥812	≥10.2	≥1353	≥17	223-247	28-31	120

Magnetic Properties of SH-series Magnet									
Grade 性能	剩磁感应强 Remanence, Br		矫顽力 Coercivity, H _{cb}		内禀矫顽力 Intrinsic Coercivity, H _{ci}		最大磁能积 Maximum Energy Product, (BH) _{max}		最高工作温 度 Working Temp.,
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	Celsius °C
N48SH	1370-1430	13.7-14.3	≥1003	≥12.6	≥1600	≥20	366-390	46-49	150
N45SH	1320-1380	13.2-13.8	≥1003	≥12.6	≥1600	≥20	342-366	43-46	150
N44SH	1310-1350	13.1-13.5	≥1003	≥12.6	≥1600	≥20	334-358	42-45	150
N42SH	1280-1320	12.8-13.2	≥995	≥12.5	≥1600	≥20	318-342	40-43	150
N40SH	1250-1280	12.5-12.8	≥947	≥11.9	≥1600	≥20	302-326	38-41	150
N38SH	1220-1250	12.2-12.5	≥931	≥11.7	≥1600	≥20	287-310	36-39	150
N35SH	1170-1220	11.7-12.2	≥907	≥11.4	≥1600	≥20	263-287	33-36	150
N33SH	1130-1170	11.3-11.7	≥844	≥10.6	≥1600	≥20	247-271	31-34	150
N30SH	1080-1130	10.8-11.3	≥804	≥10.1	≥1600	≥20	223-247	28-31	150

Magnetic Properties of UH-series Magnet									
Grade 性能	剩磁感应强 Remanence, Br		矫顽力 Coercivity, H _{cb}		内禀矫顽力 Intrinsic Coercivity, H _{ci}		最大磁能积 Maximum Energy Product, (BH) _{max}		最高工作温 度 Working Temp.,
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	Celsius °C
N45UH	1310-1350	13.1-13.5	≥1003	≥12.6	≥2000	≥25	334-358	42-45	180
N42UH	1280-1320	12.8-13.2	≥907	≥11.4	≥2000	≥25	318-342	40-43	180
N40UH	1240-1280	12.4-12.8	≥907	≥11.4	≥2000	≥25	302-326	38-41	180
N38UH	1220-1250	12.2-12.5	≥907	≥11.4	≥2000	≥25	287-310	36-39	180
N35UH	1180-1220	11.8-12.2	≥875	≥11.0	≥2000	≥25	263-287	33-36	180
N33UH	1130-1170	11.3-11.7	≥844	≥10.6	≥2000	≥25	247-271	31-34	180
N30UH	1020-1080	10.8-11.3	≥835	≥10.5	≥2000	≥25	223-247	28-31	180
N28UH	1050-1080	10.5-10.8	≥764	≥9.6	≥2000	≥25	207-239	26-30	180

Magnetic Properties of EH/AH-series Magnet									
Grade 性能	剩磁感应强 Remanence, Br		矫顽力 Coercivity, H _{cb}		内禀矫顽力 Intrinsic Coercivity, H _{cj}		最大磁能积 Maximum Energy Product, (BH) _{max}		最高工作温 度Working Temp.,
	mT	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	Celsius °C
N42EH	1280-1310	12.8-13.1	≥907	≥11.4	≥2388	≥30	320-340	38-41	200
N40EH	1240-1280	12.5-12.8	≥907	≥11.4	≥2388	≥30	302-326	38-41	200
N38EH	1220-1250	12.2-12.8	≥907	≥11.4	≥2388	≥30	287-310	36-39	200
N35EH	1170-1220	11.7-12.2	≥876	≥11.0	≥2388	≥30	263-287	33-36	200
N33EH	1130-1170	11.3-11.7	≥812	≥10.2	≥2388	≥30	247-271	31-34	200
N30EH	1080-1130	10.8-11.3	≥812	≥10.2	≥2388	≥30	223-247	28-31	200
N28EH	1040-1090	10.4-10.9	≥780	≥9.8	≥2400	≥30	207-231	26-29	200
N38AH	1220-1250	12.2-12.5	≥907	≥11.4	≥2706	≥34	287-310	36-39	240
N35AH	1170-1220	11.7-12.2	≥812	≥10.2	≥2785	≥35	263-287	33-36	240
N33AH	1130-1170	11.3-11.7	≥812	≥10.2	≥2785	≥35	247-271	31-34	240
N30AH	1080-1130	10.8-11.3	≥812	≥10.2	≥2785	≥35	223-247	28-31	240

Remark: The magnetic property data are obtained at room temperature, approx. 20 degrees Celsius.

The max. working temperature of a magnet will be also effected by other factors such as: length-diameter ratio, coating type or coating thickness.