

Magnetic Properties of Sintered NdFeB

Grade	Max. Energy Product		Remanence (Residual Induction)		Coercive Force – Intrinsic Coercive Force				Temp. Coeff.		Curie Temp.	Max Work Temp.
	(BH) _{max}		B _r		H _c		H _{ci}		α B _r	β H _{ci}	T _c	T _m
	MGOe	KJ/m ³	KG	mT	KOe	KA/m	KOe	KA/m	%/°C	%/°C	°C	°C
<u>N35</u>	33-36	263-287	11.70-12.20	1170-1220	≥10.9	≥868	≥12	≥955	-0.12	-0.6	310	≤80
<u>N38</u>	36-39	287-310	12.20-12.50	1220-1250	≥11.3	≥899	≥12	≥955	-0.12	-0.6	310	≤80
<u>N40</u>	38-41	302-326	12.50-12.80	1250-1280	≥11.4	≥907	≥12	≥955	-0.12	-0.6	310	≤80
<u>N42</u>	40-43	318-342	12.80-13.20	1280-1320	≥11.5	≥915	≥12	≥955	-0.12	-0.6	310	≤80
<u>N45</u>	43-46	342-366	13.20-13.80	1320-1380	≥11.6	≥923	≥12	≥955	-0.12	-0.6	310	≤80
<u>N48</u>	46-49	366-390	13.80-14.20	1380-1420	≥11.6	≥923	≥12	≥876	-0.12	-0.6	310	≤80
<u>N50</u>	48-51	382-406	14.00-14.50	1400-1450	≥10.0	≥796	≥11	≥876	-0.11	-0.85	320	≤60
<u>N52</u>	50-53	398-422	14.3-14.80	1430-1480	≥10.0	≥796	≥11	≥876	-0.11	-0.85	320	≤60
<u>N35M</u>	33-36	263-287	11.70-12.20	1170-1220	≥10.9	≥868	≥14	≥1114	-0.12	-0.59	320	≤100
<u>N38M</u>	36-39	287-310	12.20-12.50	1220-1250	≥11.3	≥899	≥14	≥1114	-0.12	-0.59	320	≤100
<u>N40M</u>	38-41	302-326	12.50-12.80	1250-1280	≥11.6	≥923	≥14	≥1114	-0.12	-0.59	320	≤100
<u>N42M</u>	40-43	318-342	12.80-13.20	1280-1320	≥12.0	≥955	≥14	≥1114	-0.12	-0.59	320	≤100
<u>N45M</u>	43-46	342-366	13.20-13.80	1320-1380	≥12.5	≥995	≥14	≥1114	-0.12	-0.59	320	≤100
<u>N48M</u>	46-49	366-390	13.60-14.30	1360-1430	≥12.9	≥1027	≥14	≥1114	-0.11	-0.8	320	≤100
<u>N50M</u>	48-51	382-406	14.00-14.50	1400-1450	≥13.0	≥1033	≥14	≥1114	-0.11	-0.8	320	≤100
<u>N35H</u>	33-36	263-287	11.70-12.20	1170-1220	≥10.9	≥868	≥17	≥1353	-0.11	-0.58	320-350	≤120
<u>N38H</u>	36-39	287-310	12.20-12.50	1220-1250	≥11.3	≥899	≥17	≥1353	-0.11	-0.58	320-350	≤120
<u>N40H</u>	38-41	302-326	12.50-12.80	1250-1280	≥11.6	≥923	≥17	≥1353	-0.11	-0.58	320-350	≤120
<u>N42H</u>	40-43	318-342	12.80-13.20	1280-1320	≥12.0	≥955	≥17	≥1353	-0.11	-0.58	320-350	≤120
<u>N45H</u>	43-46	342-358	13.00-13.60	1300-1360	≥12.1	≥963	≥17	≥1353	-0.12	-0.75	350	≤120
<u>N48H</u>	46-49	358-390	13.70-14.30	1370-1430	≥12.5	≥995	≥17	≥1353	-0.12	-0.75	350	≤120
<u>N35SH</u>	33-36	263-287	11.70-12.20	1170-1220	≥11.0	≥876	≥20	≥1592	-0.11	-0.55	340-360	≤150
<u>N38SH</u>	36-39	287-310	12.20-12.50	1220-1250	≥11.4	≥907	≥20	≥1592	-0.11	-0.55	340-360	≤150
<u>N40SH</u>	38-41	302-326	12.50-12.80	1250-1280	≥11.8	≥939	≥20	≥1592	-0.11	-0.55	340-360	≤150
<u>N42SH</u>	40-43	318-342	12.80-13.20	1280-1320	≥12.4	≥987	≥20	≥1592	-0.11	-0.6	380	≤150
<u>N45SH</u>	43-46	342-366	13.20-13.80	1320-1380	≥12.6	≥1003	≥20	≥1592	-0.12	-0.6	380	≤150
<u>N30UH</u>	28-31	223-247	10.80-11.30	1080-1130	≥10.2	≥812	≥25	≥1990	-0.11	-0.51	350-380	≤180
<u>N33UH</u>	31-34	247-271	11.30-11.70	1130-1170	≥10.7	≥852	≥25	≥1990	-0.11	-0.51	350-380	≤180
<u>N35UH</u>	33-36	263-287	11.80-12.20	1180-1220	≥10.8	≥860	≥25	≥1990	-0.1	-0.55	380	≤180
<u>N38UH</u>	36-39	287-310	12.20-12.50	1220-1250	≥11.0	≥876	≥25	≥1990	-0.1	-0.55	380	≤180
<u>N40UH</u>	38-41	302-326	12.40-12.80	1240-1280	≥11.3	≥899	≥25	≥1990	-0.1	-0.55	380	≤180
<u>N30EH</u>	28-31	223-247	10.80-11.30	1080-1130	≥10.2	≥812	≥30	≥2388	-0.11	-0.51	380	≤200
<u>N33EH</u>	31-34	247-271	11.30-11.70	1130-1170	≥10.5	≥836	≥30	≥2388	-0.09	-0.5	380	≤200

<u>N35EH</u>	33-36	263-287	11.70-12.20	1170-1220	≥11.0	≥876	≥30	≥2388	-0.09	-0.5	380	≤200
<u>N38EH</u>	36-39	287-310	12.20-12.50	1220-1250	≥11.3	≥899	≥30	≥2388	-0.09	-0.5	380	≤200

Remark :

1. The above mentioned data of magnetic and physical characteristics are given at room temperature.
2. The density : 7.4-~7.6 g/cm³
3. 3.The conversion table: 1T = 10KGs ; 1KA/m=79.6Koe ;
1KJ/m3=7.96MGOe