

Physical and Mechanical Properties

Thermal Conductivity	Young's Modulus	Bending Strength	Compressive Strength	Electrical Resistivity	Density	Vickers Hardness
7.7 kcal/m-h-°C	1.7 x 10 ⁴ kg/mm ²	24 kg/mm ²	80 kg/mm ²	160 μ-ohm-cm/cm ²	7.4-7.6 g/cm ³	500 - 600

Magnetic Characteristics of Sintered NdFeB

Properties Grade	Max Energy Product	Remanence	Coercive Force	Intrinsic Coercive Force	Temp Coefficient		Curie Temp	Max Working Temp
	(BH)max	Br	Hcb	Hci	αBr	βHci	Tc	Tw
	KJ/m ³ (MGOe)	mT(KGs)	KA/m (KOe)	KA/m (KOe)	%/°C	%/°C	°C	°C
N35	263-287(33-36)	1170-1220(11.7-12.2)	≥868(≥10.9)	≥955(≥12)	-0.12	-0.6	310	≤80
N38	287-310(36-39)	1220-1250(12.2-12.5)	≥899(≥11.3)	≥955(≥12)	-0.12	-0.6	310	≤80
N40	302-326(38-41)	1250-1280(12.5-12.8)	≥907(≥11.4)	≥955(≥12)	-0.12	-0.6	310	≤80
N42	318-342(40-43)	1280-1320(12.8-13.2)	≥915(≥11.5)	≥955(≥12)	-0.12	-0.6	310	≤80
N45	342-366(43-46)	1320-1380(13.2-13.8)	≥923(≥11.6)	≥955(≥12)	-0.12	-0.6	310	≤80
N48	366-390(46-49)	1380-1420(13.8-14.2)	≥923(≥11.6)	≥876(≥11)	-0.12	-0.6	310	≤80
N50	382-406(48-51)	1400-1450(14.0-14.5)	≥796(≥10.0)	≥876(≥11)	-0.11	-0.85	320	≤60
N52	398-422(50-53)	1430-1480(14.3-14.8)	≥796(≥10.0)	≥876(≥11)	-0.11	-0.85	320	≤60
N35M	263-287(33-36)	1170-1220(11.7-12.2)	≥868(≥10.9)	≥1114(≥14)	-0.12	-0.59	320	≤100
N38M	287-310(36-39)	1220-1250(12.2-12.5)	≥899(≥11.3)	≥1114(≥14)	-0.12	-0.59	320	≤100
N40M	302-326(38-41)	1250-1280(12.5-12.8)	≥923(≥11.6)	≥1114(≥14)	-0.12	-0.59	320	≤100
N42M	318-342(40-43)	1280-1320(12.8-13.2)	≥955(≥12.0)	≥1114(≥14)	-0.12	-0.59	320	≤100
N45M	342-366(43-46)	1320-1380(13.2-13.8)	≥995(≥12.5)	≥1114(≥14)	-0.12	-0.59	320	≤100
N48M	366-390(46-49)	1360-1430(13.6-14.3)	≥1027(≥12.9)	≥1114(≥14)	-0.11	-0.8	320	≤100
N50M	382-406(48-51)	1400-1450(14.0-14.5)	≥1033(≥13.0)	≥1114(≥14)	-0.11	-0.8	320	≤100
N35H	263-287(33-36)	1170-1220(11.7-12.2)	≥868(≥10.9)	≥1353(≥17)	-0.11	-0.58	320-350	≤120
N38H	287-310(36-39)	1220-1250(12.2-12.5)	≥899(≥11.3)	≥1353(≥17)	-0.11	-0.58	320-350	≤120
N40H	302-326(38-41)	1250-1280(12.5-12.8)	≥923(≥11.6)	≥1353(≥17)	-0.11	-0.58	320-350	≤120
N42H	318-342(40-43)	1280-1320(12.8-13.2)	≥955(≥12.0)	≥1353(≥17)	-0.11	-0.58	320-350	≤120
N45H	342-358(43-46)	1300-1360(13.0-13.6)	≥963(≥12.1)	≥1353(≥17)	-0.12	-0.75	350	≤120
N48H	358-390(46-49)	1370-1430(13.7-14.3)	≥995(≥12.5)	≥1353(≥17)	-0.12	-0.75	350	≤120
N35SH	263-287(33-36)	1170-1220(11.7-12.2)	≥876(≥11.0)	≥1592(≥20)	-0.11	-0.55	340-360	≤150
N38SH	287-310(36-39)	1220-1250(12.2-12.5)	≥907(≥11.4)	≥1592(≥20)	-0.11	-0.55	340-360	≤150
N40SH	302-326(38-41)	1250-1280(12.5-12.8)	≥939(≥11.8)	≥1592(≥20)	-0.11	-0.55	340-360	≤150
N42SH	318-342(40-43)	1280-1320(12.8-13.2)	≥987(≥12.4)	≥1592(≥20)	-0.11	-0.6	380	≤150
N45SH	342-366(43-46)	1320-1380(13.2-13.8)	≥1003(≥12.6)	≥1592(≥20)	-0.12	-0.6	380	≤150
N30UH	223-247(28-31)	1080-1130(10.8-11.3)	≥812(≥10.2)	≥1990(≥25)	-0.11	-0.51	350-380	≤180
N33UH	247-271(31-34)	1130-1170(11.3-11.7)	≥852(≥10.7)	≥1990(≥25)	-0.11	-0.51	350-380	≤180
N35UH	263-287(33-36)	1180-1220(11.8-12.2)	≥860(≥10.8)	≥1990(≥25)	-0.1	-0.55	380	≤180
N38UH	287-310(36-39)	1220-1250(12.2-12.5)	≥876(≥11.0)	≥1990(≥25)	-0.1	-0.55	380	≤180
N40UH	302-326(38-41)	1240-1280(12.4-12.8)	≥899(≥11.3)	≥1990(≥25)	-0.1	-0.55	380	≤180
N30EH	223-247(28-31)	1080-1130(10.8-11.3)	≥812(≥10.2)	≥2388(≥30)	-0.11	-0.51	380	≤200
N33EH	247-271(31-34)	1130-1170(11.3-11.7)	≥836(≥10.5)	≥2388(≥30)	-0.09	-0.5	380	≤200
N35EH	263-287(33-36)	1170-1220(11.7-12.2)	≥876(≥11.0)	≥2388(≥30)	-0.09	-0.5	380	≤200
N38EH	287-310(36-39)	1220-1250(12.2-12.5)	≥899(≥11.3)	≥2388(≥30)	-0.09	-0.5	380	≤200

Notes:

1. The above-mentioned data of magnetic parameters and physical properties are given at room temperature.
2. The maximum service temperature of magnet is changeable due to the ratio length and diameter and environmental factors.
3. Density: 7.4~7.6g/cm³ ; αBr : -0.09~-0.13%°C ; αHci: -0.50~-0.80%°C ; Hv: 600 ;