

Magnetic Characteristics And Physical Properties of Sintered Nd-Fe-B

Characteristics Grade	Remanence Br mt(KG)	Coerciv FORCE hcb Koe(KA/m)	Intrinsic Coercive iHc Koe(KA/m)	Max Enery Product (BH) max KJ/m3(MGOe)	Maximum working temperature Tw°C
N35	1170-1210(11.7-12.1)	≥ 10.8 (≥860)	≥ 12 (≥955)	263-287 (33-36)	80
N38	1210-1250(12.1-12.5)	≥ 10.8 (≥860)	≥ 12 (≥955)	287-310 (36-39)	80
N40	1250-1280(12.5-12.8)	≥ 11.6 (≥923)	≥ 12 (≥955)	302-326 (38-41)	80
N42	1280-1320(12.8-13.2)	≥ 11.6 (≥923)	≥ 12 (≥955)	318-342 (40-43)	80
N45	1320-1380(13.2-13.8)	≥ 11.0 (≥876)	≥ 12 (≥955)	342-366 (43-46)	80
N48	1380-1420(13.8-14.2)	≥ 10.5 (≥835)	≥ 12 (≥955)	366-390 (46-49)	80
N50	1380-1450(13.8-14.5)	≥ 10.5 (≥835)	≥ 11 (≥955)	374-406 (47-51)	80
N52	1430-1480(14.3-14.8)	≥ 10.8 (≥860)	≥ 11 (≥876)	398-422 (50-53)	80
33M	1130-1170(11.3-11.7)	≥ 10.3 (≥820)	≥ 14 (≥ 1114)	247-263 (31-33)	100
35M	1170-1210(11.7-12.1)	≥ 10.8 (≥860)	≥ 14 (≥ 1114)	263-287 (33-36)	100
38M	1210-1250(12.1-12.5)	≥ 11.0 (≥876)	≥ 14 (≥ 1114)	287-310 (36-39)	100
40M	1250-1280(12.5-12.8)	≥ 11.4 (≥907)	≥ 14 (≥ 1114)	302-326 (38-41)	100
42M	1280-1320(12.8-13.2)	≥ 11.6 (≥923)	≥ 14 (≥ 1114)	318-342 (40-43)	100
45M	1320-1380(13.2-13.8)	≥ 11.8 (≥939)	≥ 14 (≥ 1114)	342-366 (43-46)	100
48M	1360-1400(13.6-14.0)	≥ 11.8 (≥939)	≥ 14 (≥ 1114)	366-390 (46-49)	100
50M	1400-1450(14.0-14.5)	≥ 13.0 (≥ 1033)	≥ 14 (≥ 1114)	382-406 (48-51)	100
30H	1080-1130(10.8-11.3)	≥ 10.2 (≥812)	≥ 17 (≥ 1353)	223-247 (28-31)	120
33H	1130-1170(11.3-11.7)	≥ 10.6 (≥844)	≥ 17 (≥ 1353)	247-263 (31-33)	120
35H	1170-1210(11.7-12.1)	≥ 11.0 (≥876)	≥ 17 (≥ 1353)	263-287 (33-36)	120
38H	1210-1250(12.1-12.5)	≥ 11.2 (≥890)	≥ 17 (≥ 1353)	287-310 (36-39)	120
40H	1250-1280(12.5-12.8)	≥ 11.5 (≥915)	≥ 17 (≥ 1353)	302-326 (38-41)	120
42H	1280-1320(12.8-13.2)	≥ 12.0 (≥955)	≥ 17 (≥ 1353)	318-342 (40-43)	120
45H	1320-1380(13.2-13.5)	≥ 12.0 (≥955)	≥ 17 (≥ 1353)	335-366 (42-46)	120
46H	1330-1380(13.3-13.8)	≥ 12.2 (≥972)	≥ 16 (≥ 1274)	350-374 (44-47)	120
48H	1360-1430(13.6-14.3)	≥ 12.5 (≥995)	≥ 16 (≥ 1274)	366-390 (46-49)	120
30SH	1080-1130(10.8-11.3)	≥ 10.0 (≥796)	≥ 20 (≥ 1672)	223-247 (28-31)	150
33SH	1130-1170(11.3-11.7)	≥ 10.6 (≥844)	≥ 20 (≥ 1672)	247-263 (31-33)	150
35SH	1170-1210(11.7-12.1)	≥ 11.0 (≥876)	≥ 20 (≥ 1672)	263-287 (33-36)	150
38SH	1210-1250(12.1-12.5)	≥ 11.4 (≥907)	≥ 20 (≥ 1972)	287-310 (36-39)	150
40SH	1250-1280(12.5-12.8)	≥ 11.8 (≥939)	≥ 20 (≥ 1972)	302-326 (38-41)	150
42SH	1280-1320(12.8-13.2)	≥ 11.8 (≥939)	≥ 20 (≥ 1672)	320-343 (40-43)	150
45SH	1320-1380(13.2-13.8)	≥ 12.6 (≥ 1003)	≥ 20 (≥ 1592)	342-366 (43-46)	150
30UH	1080-1130(10.8-11.3)	≥ 10.2 (≥812)	≥ 25 (≥ 1990)	223-247 (28-31)	180
33UH	1130-1170(11.3-11.7)	≥ 10.7 (≥852)	≥ 25 (≥ 1990)	247-263 (31-33)	180
35UH	1170-1210(11.7-12.1)	≥ 10.7 (≥852)	≥ 25 (≥ 1990)	263-287 (33-36)	180
38UH	1210-1250(12.1-12.5)	≥ 11.4 (≥907)	≥ 25 (≥ 1990)	287-310 (36-39)	180
40UH	1250-1280(12.5-12.8)	≥ 11.4 (≥907)	≥ 25 (≥ 1990)	302-326 (38-41)	180
28EH	1040-1080(10.4-10.8)	≥ 9.5 (≥756)	≥ 30 (≥ 2388)	207-231 (26-29)	200
30EH	1080-1130(10.8-11.3)	≥ 9.5 (≥756)	≥ 30 (≥ 2388)	223-247 (28-31)	200
33EH	1130-1170(11.3-11.7)	≥ 10.2 (≥812)	≥ 30 (≥ 2388)	247-263 (31-33)	200
35EH	1170-1210(11.7-12.1)	≥ 10.2 (≥812)	≥ 30 (≥ 2388)	263-287 (33-36)	200
38EH	1210-1250(12.1-12.5)	≥ 11.4 (≥907)	≥ 30 (≥ 2388)	287-310 (36-39)	200
30AH	1080-1130(10.8-11.3)	≥ 10.2 (≥812)	≥ 35 (≥ 2785)	223-255 (28-32)	220
33AH	1120-1170(11.2-11.7)	≥ 10.2 (≥812)	≥ 35 (≥ 2785)	247-271 (31-34)	220

Note:

- The above-mentioned data of magnetic parameters and physical properties are given at room temperature.
- The maximum service temperature of magnet is changeable due to the ratio length and diameter and environmental factors.