

SINTERED NdFeB MAGNETS

MAGNETIC PROPERTIES

Note:

1. The properties below is given at room temperature
2. Test standard accord to GB/T3217-92 or International standard IEC404-5. Tested magnet is no smaller than D10mmx7mm, non-plated, fine surface magnet. Change of shape, size and surface condition may lead to possible change of test.
3. Normally, the magnets Acemade provide are in the standard of 4 main properties listed below—Br, (BH)max, Hcb, Hcj. Magnet of customized properties can be also developed.
4. Magnet maximum working temperature is fluctuant due to ratio of length & diameter and environmental factors.

Grade	Remanence	Coercive Force	Intrinsic Coercive Force	Max. energy product	Max. Operating Temperature
	Br	Hcb	Hcj	(BH) max	Tw
	mT (kGs)	kA/m (kOe)	kA/m (kOe)	kJ/m ³ (MGOe)	
N35	1170-1220	≥ 868	≥ 955	263-287	80 °C
	(11.7-12.2)	(≥ 10.9)	(≥ 12)	(33-36)	
N38	1220-1250	≥ 899	≥ 955	287-310	80 °C
	(12.2-12.5)	(≥ 11.3)	(≥ 12)	(36-39)	
N40	1250-1280	≥ 907	≥ 955	302-326	80 °C
	(12.5-12.8)	(≥ 11.4)	(≥ 12)	(38-41)	
N42	1280-1320	≥ 915	≥ 955	318-342	80 °C
	(12.8-13.2)	(≥ 11.5)	(≥ 12)	(40-43)	
N45	1320-1380	≥ 923	≥ 955	342-366	80 °C
	(13.2-13.8)	(≥ 11.6)	(≥ 12)	(43-46)	
N48	1380-1420	≥ 923	≥ 955	366-390	80 °C
	(13.8-14.2)	(≥ 11.6)	(≥ 12)	(46-49)	
N50	1400-1450	≥ 796	≥ 876	382-406	80 °C
	(14.0-14.5)	(≥ 10.0)	(≥ 11)	(48-51)	
N52	1430-1480	≥ 796	≥ 876	398-422	80 °C
	(14.3-14.8)	(≥ 10.0)	(≥ 11)	(50-53)	
33M	1130-1170	≥ 836	≥ 1114	247-263	100 °C
	(11.3-11.7)	(≥ 10.5)	(≥ 14)	(31-33)	
35M	1170-1220	≥ 868	≥ 1114	263-287	100 °C
	(11.7-12.2)	(≥ 10.9)	(≥ 14)	(33-36)	
38M	1220-1250	≥ 899	≥ 1114	287-310	100 °C
	(12.2-12.5)	(≥ 11.3)	(≥ 14)	(36-39)	
40M	1250-1280	≥ 923	≥ 1114	302-326	100 °C
	(12.5-12.8)	(≥ 11.6)	(≥ 14)	(38-41)	
42M	1280-1320	≥ 955	≥ 1114	318-342	100 °C
	(12.8-13.2)	(≥ 12.0)	(≥ 14)	(40-43)	
45M	1320-1380	≥ 995	≥ 1114	342-366	100 °C
	(13.2-13.8)	(≥ 12.5)	(≥ 14)	(43-46)	
48M	1360-1430	≥ 1027	≥ 1114	366-390	100 °C
	(13.6-14.3)	(≥ 12.9)	(≥ 14)	(46-49)	
50M	1400-1450	≥ 1033	≥ 1114	382-406	100 °C
	(14.0-14.5)	(≥ 13.0)	(≥ 14)	(48-51)	
35H	1170-1220	≥ 868	≥ 1353	263-287	120 °C
	(11.7-12.2)	(≥ 10.9)	(≥ 17)	(33-36)	
38H	1220-1250	≥ 899	≥ 1353	287-310	120 °C
	(12.2-12.5)	(≥ 11.3)	(≥ 17)	(36-39)	



Acemad Group Ltd

137 Zhongshan East Road, Ningbo, Zhejiang Province, China

Tel: +86-574-87369417, 87026256 Fax: +86-574-87344602 magnetech@vip.163.com www.acemademagnets.com

Grade	Remanence	Coercive Force	Intrinsic Coercive Force	Max. energy product	Max. Operating Temperature
	Br	Hcb	Hcj	(BH) max	Tw
	mT (kGs)	kA/m (kOe)	kA/m (kOe)	kJ/m ³ (MGOe)	
40H	1250-1280 (12.5-12.8)	≥ 923 (≥ 11.6)	≥ 1353 (≥ 17)	302-326 (38-41)	120 °C
42H	1280-1320 (12.8-13.2)	≥ 955 (≥ 12.0)	≥ 1353 (≥ 17)	318-342 (40-43)	120 °C
45H	1320-1360 (13.2-13.6)	≥ 963 (≥ 12.1)	≥ 1353 (≥ 17)	326-358 (43-46)	120 °C
48H	1370-1430 (13.7-14.3)	≥ 995 (≥ 12.5)	≥ 1353 (≥ 17)	366-390 (46-49)	120 °C
35SH	1170-1220 (11.7-12.2)	≥ 876 (≥ 11.0)	≥ 1592 (≥ 20)	263-287 (33-36)	150 °C
38SH	1220-1250 (12.2-12.5)	≥ 907 (≥ 11.4)	≥ 1592 (≥ 20)	287-310 (36-39)	150 °C
40SH	1240-1280 (12.5-12.8)	≥ 939 (≥ 11.8)	≥ 1592 (≥ 20)	302-326 (38-41)	150 °C
42SH	1280-1320 (12.8-13.2)	≥ 987 (≥ 12.4)	≥ 1592 (≥ 20)	318-342 (40-43)	150 °C
45SH	1320-1380 (13.2-13.8)	≥ 1003 (≥ 12.6)	≥ 1592 (≥ 20)	342-366 (43-46)	150 °C
28UH	1020-1080 (10.2-10.8)	≥ 764 (≥ 9.6)	≥ 1990 (≥ 25)	207-231 (26-29)	180 °C
30UH	1080-1130 (10.8-11.3)	≥ 812 (≥ 10.2)	≥ 1990 (≥ 25)	223-247 (28-31)	180 °C
33UH	1130-1170 (11.3-11.7)	≥ 852 (≥ 10.7)	≥ 1990 (≥ 25)	247-271 (31-34)	180 °C
35UH	1180-1220 (11.8-12.2)	≥ 860 (≥ 10.8)	≥ 1990 (≥ 25)	263-287 (33-36)	180 °C
38UH	1220-1250 (12.2-12.5)	≥ 876 (≥ 11.0)	≥ 1990 (≥ 25)	287-310 (36-39)	180 °C
40UH	1240-1280 (12.5-12.8)	≥ 899 (≥ 11.3)	≥ 1990 (≥ 25)	302-326 (38-41)	180 °C
28EH	1040-1090 (10.4-10.9)	≥ 780 (≥ 9.8)	≥ 2388 (≥ 30)	207-231 (26-29)	200 °C
30EH	1080-1130 (10.8-11.3)	≥ 812 (≥ 10.2)	≥ 2388 (≥ 30)	223-247 (28-31)	200 °C
33EH	1130-1170 (11.3-11.7)	≥ 876 (≥ 10.5)	≥ 2388 (≥ 30)	247-271 (31-34)	200 °C
35EH	1170-1220 (11.7-12.2)	≥ 876 (≥ 11.0)	≥ 2388 (≥ 30)	263-287 (33-36)	200 °C
38EH	1220-1250 (12.2-12.5)	≥ 899 (≥ 11.3)	≥ 2388 (≥ 30)	287-310 (36-39)	200 °C
28AH	1040-1090 (10.4-10.9)	≥ 787 (≥ 9.9)	≥ 2624 (≥ 33)	207-231 (26-29)	230 °C
30AH	(26-29) (10.8-11.3)	≥ 819 (≥ 10.3)	≥ 2624 (≥ 33)	223-247 (28-31)	230 °C
33AH	1130-1170 (11.3-11.7)	≥ 843 (≥ 10.6)	≥ 2624 (≥ 33)	247-271 (31-34)	230 °C