Production Information – Property Parameters

Magnetic Properties of N-series Magnet

NO	Grade	Magnet Property				Max Working Temp T_w (°C)
		Remanence,Br mT or kGs	Coercivity,H_{cb} kA/m or kOe	Intrinsic Coercivity,H_{cJ} kA/m or kOe	Maximum Energy Product,$(BH)_{max}$ kJ/m or MGOe	
1	N55	1470-1530 (14.7-15.3)	⩾ 860 (⩾ 10.8)	⩾ 876 (⩾ 11)	414-438 (52-56)	80
2	N52	1430-1480 (14.3-14.8)	⩾ 860 (⩾ 10.8)	⩾ 955 (⩾ 12)	398-422 (50-53)	80
3	N50	1400-1450 (14.0-14.5)	⩾ 860 (⩾ 10.8)	⩾ 955 (⩾ 12)	382-406 (48-51)	80
4	N48	1380-1420 (13.8-14.2)	⩾ 836 (⩾ 10.5)	⩾ 955 (⩾ 12)	366-390 (46-49)	80
5	N45	1320-1380 (13.2-13.8)	⩾ 876 (⩾ 11.0)	⩾ 955 (⩾ 12)	342-366 (43-46)	80
6	N42	1280-1320 (12.8-13.2)	⩾ 923 (⩾ 11.6)	⩾ 955 (⩾ 12)	318-342 (40-43)	80
7	N40	1250-1280 (12.5-12.8)	⩾ 923 (⩾ 11.6)	⩾ 955 (⩾ 12)	302-326 (38-41)	80
8	N38	1220-1250 (12.2-12.5)	⩾ 899 (⩾ 11.3)	⩾ 955 (⩾ 12)	287-310 (36-39)	80
9	N35	1170-1210 (11.7-12.2)	⩾ 868 (⩾ 10.9)	⩾ 955 (⩾ 12)	263-287 (33-36)	80
10	N33	1130-1180 (11.3-11.8)	⩾ 836 (⩾ 10.5)	⩾ 955 (⩾ 12)	247-270 (31-34)	80
11	N30	1080-1130 (10.8-11.3)	⩾ 796 (⩾ 10)	⩾ 955 (⩾ 12)	223-247 (28-31)	80

Magnetic Properties of M-series Magnet

NO	Grade	Magnet Property				Max Working Temp T_w (°C)
		Remanence,Br mT or kGs	Coercivity,H_{cb} kA/m or kOe	Intrinsic Coercivity,H_{cJ} kA/m or kOe	Maximum Energy Product,$(BH)_{max}$ kJ/m or MGOe	
1	N52M	1430-1480 (14.3-14.8)	⩾ 1035 (⩾ 13.0)	⩾ 1114 (⩾ 14)	398-422 (50-53)	100
2	N50M	1400-1450 (14.0-14.5)	⩾ 1035 (⩾ 13.0)	⩾ 1114 (⩾ 14)	382-406 (48-51)	100
3	N48M	1380-1430 (13.8-14.3)	⩾ 1027 (⩾ 12.9)	⩾ 1114 (⩾ 14)	366-390 (46-49)	100
4	N45M	1330-1380 (13.3-13.8)	⩾ 995 (⩾ 12.5)	⩾ 1114 (⩾ 14)	342-366 (43-46)	100
5	N42M	1280-1330 (12.8-13.3)	⩾ 955 (⩾ 12.0)	⩾ 1114 (⩾ 14)	318-342 (40-43)	100
6	N40M	1250-1280 (12.5-12.8)	⩾ 923 (⩾ 11.6)	⩾ 1114 (⩾ 14)	302-326 (38-41)	100
7	N38M	1220-1250 (12.2-12.5)	⩾ 899 (⩾ 11.3)	⩾ 1114 (⩾ 14)	287-310 (36-39)	100
8	N35M	1170-1220 (11.7-12.2)	⩾ 868 (⩾ 10.9)	⩾ 1114 (⩾ 14)	263-287 (33-36)	100
9	N33M	1130-1180 (11.3-11.8)	⩾ 836 (⩾ 10.5)	⩾ 1114 (⩾ 14)	247-270 (31-34)	100
10	N30M	1080-1130 (10.8-11.3)	⩾ 796 (⩾ 10)	⩾ 1114 (⩾ 14)	223-247 (28-31)	100

Magnetic Properties of H-series Magnet

NO	Grade	Magnet Property				Max Working Temp T_w (°C)
		Remanence,Br mT or kGs	Coercivity,H_{cb} kA/m or kOe	Intrinsic Coercivity,H_{cJ} kA/m or kOe	Maximum Energy Product,$(BH)_{max}$ kJ/m or MGOe	
1	N52H	1420-1470 (14.2-14.7)	⩾ 1050 (⩾ 13.2)	⩾ 1353 (⩾ 17)	398-422 (50-53)	120
2	N50H	1400-1450 (14.0-14.5)	⩾ 1035 (⩾ 13.0)	⩾ 1353 (⩾ 17)	382-406 (48-51)	120
3	N48H	1380-1430 (13.8-14.3)	⩾ 1035 (⩾ 13.0)	⩾ 1353 (⩾ 17)	366-390 (46-49)	120
4	N45H	1330-1380 (13.3-13.8)	⩾ 1010 (⩾ 12.7)	⩾ 1353 (⩾ 17)	342-366 (43-46)	120
5	N42H	1280-1330 (12.8-13.3)	⩾ 995 (⩾ 12.5)	⩾ 1353 (⩾ 17)	318-342 (40-43)	120
6	N40H	1250-1280 (12.5-12.8)	⩾ 940 (⩾ 11.8)	⩾ 1353 (⩾ 17)	302-326 (38-41)	120
7	N38H	1220-1250 (12.2-12.5)	⩾ 899 (⩾ 11.3)	⩾ 1353 (⩾ 17)	287-310 (36-39)	120
8	N35H	1170-1220 (11.7-12.2)	⩾ 876 (⩾ 11.0)	⩾ 1353 (⩾ 17)	263-287 (33-36)	120
9	N33H	1130-1180 (11.3-11.8)	⩾ 844 (⩾ 10.6)	⩾ 1353 (⩾ 17)	247-271 (31-34)	120
10	N30H	1080-1130 (10.8-11.3)	⩾ 812 (⩾ 10.2)	⩾ 1353 (⩾ 17)	223-247 (28-31)	120

Production Information – Property Parameters

Magnetic Properties of SH-series Magnet

NO	Grade	Magnet Property				Max Working Temp T_w (°C)
		Remanence,Br mT or kGs	Coercivity,H_{cb} kA/m or kOe	Intrinsic Coercivity,H_{cJ} kA/m or kOe	Maximum Energy Product,$(BH)_{max}$ kJ/m or MGOe	
1	N52SH	1430-1450 (14.3-14.5)	-	⩾ 1592 (⩾ 20)	406-430 (51-54)	150
2	N50SH	1400-1450 (14.0-14.5)	⩾ 1035 (⩾ 13.0)	⩾ 1592 (⩾ 20)	382-406 (48-51)	150
3	N48SH	1370-1430 (13.7-14.3)	⩾ 1003 (⩾ 12.6)	⩾ 1592 (⩾ 20)	366-390 (46-49)	150
4	N45SH	1330-1370 (13.3-13.7)	⩾ 995 (⩾ 12.5)	⩾ 1592 (⩾ 20)	342-366 (43-46)	150
5	N42SH	1280-1340 (12.8-13.4)	⩾ 963 (⩾ 12.1)	⩾ 1592 (⩾ 20)	318-342 (40-43)	150
6	N40SH	1260-1310 (12.6-13.1)	⩾ 947 (⩾ 11.9)	⩾ 1592 (⩾ 20)	302-326 (38-41)	150
7	N38SH	1220-1290 (12.2-12.9)	⩾ 931 (⩾ 11.7)	⩾ 1592 (⩾ 20)	287-310 (36-39)	150
8	N35SH	1170-1240 (11.7-12.4)	⩾ 875 (⩾ 11.0)	⩾ 1592 (⩾ 20)	263-287 (33-36)	150
9	N33SH	1130-1170 (11.3-11.7)	⩾ 844 (⩾ 10.6)	⩾ 1592 (⩾ 20)	247-271 (31-34)	150
10	N30SH	1080-1130 (10.8-11.3)	⩾ 804 (⩾ 10.1)	⩾ 1592 (⩾ 20)	223-247 (28-31)	150

Magnetic Properties of UH-series Magnet

NO	Grade	Magnet Property				Max Working Temp T_w (°C)
		Remanence,Br mT or kGs	Coercivity,H_{cb} kA/m or kOe	Intrinsic Coercivity,H_{cJ} kA/m or kOe	Maximum Energy Product,$(BH)_{max}$ kJ/m or MGOe	
1	N45UH	1310-1360 (13.1-13.6)	⩾ 971 (⩾ 12.2)	⩾ 1990 (⩾ 25)	342-366 (43-46)	180
2	N42UH	1280-1340 (12.8-13.4)	⩾ 955 (⩾ 12.0)	⩾ 1990 (⩾ 25)	318-342 (40-43)	180
3	N40UH	1260-1310 (12.6-13.1)	⩾ 939 (⩾ 11.8)	⩾ 1990 (⩾ 25)	302-326 (38-41)	180
4	N38UH	1220-1290 (12.2-12.9)	⩾ 915 (⩾ 11.5)	⩾ 1990 (⩾ 25)	287-310 (36-39)	180
5	N35UH	1170-1240 (11.7-12.4)	⩾ 875 (⩾ 11.0)	⩾ 1990 (⩾ 25)	263-287 (33-36)	180
6	N33UH	1140-1210 (11.4-12.1)	⩾ 844 (⩾ 10.6)	⩾ 1990 (⩾ 25)	247-271 (31-34)	180
7	N30UH	1080-1130 (10.8-11.3)	⩾ 835 (⩾ 10.5)	⩾ 1990 (⩾ 25)	223-247 (28-31)	180
8	N28UH	1050-1080 (10.5-10.8)	⩾ 764 (⩾ 9.6)	⩾ 1990 (⩾ 25)	207-239 (26-30)	180

Magnetic Properties of EH-series Magnet

NO	Grade	Magnet Property				Max Working Temp T_w (°C)
		Remanence,Br mT or kGs	Coercivity,H_{cb} kA/m or kOe	Intrinsic Coercivity,H_{cJ} kA/m or kOe	Maximum Energy Product,$(BH)_{max}$ kJ/m or MGOe	
1	N42EH	1280-1320 (12.8-13.2)	⩾ 955 (⩾ 12.0)	⩾ 2388 (⩾ 30)	318-342 (40-43)	200
2	N40EH	1240-1310 (12.4-13.1)	⩾ 939 (⩾ 11.8)	⩾ 2388 (⩾ 30)	302-326 (38-41)	200
3	N38EH	1220-1270 (12.2-12.7)	⩾ 915 (⩾ 11.5)	⩾ 2388 (⩾ 30)	287-310 (36-39)	200
4	N35EH	1170-1240 (11.7-12.4)	⩾ 876 (⩾ 11.0)	⩾ 2388 (⩾ 30)	263-287 (33-36)	200
5	N33EH	1140-1210 (11.4-12.1)	⩾ 859 (⩾ 10.8)	⩾ 2388 (⩾ 30)	247-271 (31-34)	200
6	N30EH	1080-1150 (10.8-11.5)	⩾ 812 (⩾ 10.2)	⩾ 2388 (⩾ 30)	223-247 (28-31)	200
7	N28EH	1040-1090 (10.4-10.9)	⩾ 780 (⩾ 9.8)	⩾ 2388 (⩾ 30)	207-231 (26-29)	200

Magnetic Properties of AH-series Magnet

NO	Grade	Magnet Property				Max Working Temp T_w (°C)
		Remanence,Br mT or kGs	Coercivity,H_{cb} kA/m or kOe	Intrinsic Coercivity,H_{cJ} kA/m or kOe	Maximum Energy Product,$(BH)_{max}$ kJ/m or MGOe	
1	N38AH	1220-1250 (12.2-12.5)	⩾ 907 (⩾ 11.4)	⩾ 2786 (⩾ 35)	287-310 (36-39)	220
2	N35AH	1160-1230 (11.6-12.3)	⩾ 867 (⩾ 10.9)	⩾ 2786 (⩾ 35)	263-287 (33-36)	220
3	N33AH	1140-1210 (11.4-12.1)	⩾ 851 (⩾ 10.7)	⩾ 2786 (⩾ 35)	247-271 (31-34)	220
4	N30AH	1080-1150 (10.8-11.5)	⩾ 812 (⩾ 10.2)	⩾ 2786 (⩾ 35)	223-247 (28-31)	220