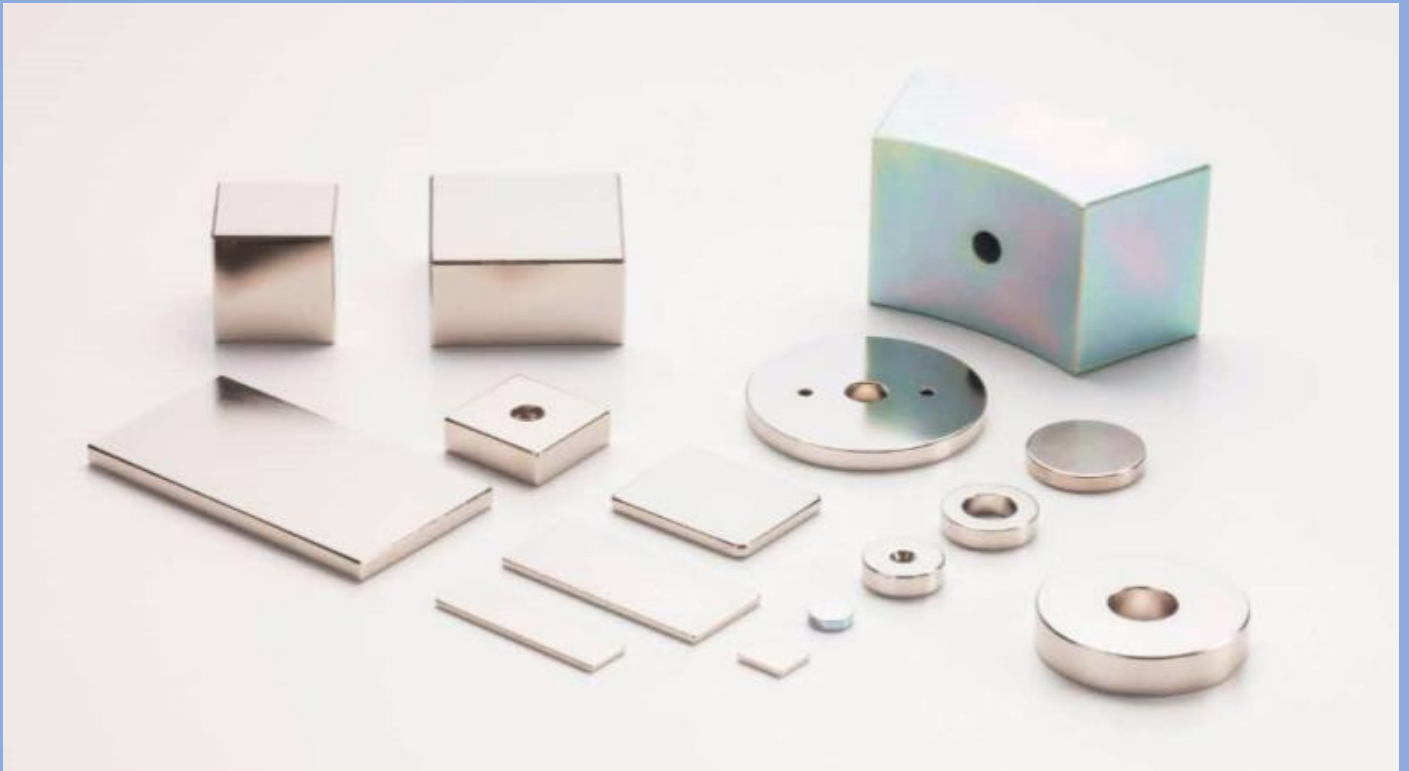


烧结钕铁硼

Sintered NdFeB Magnets



Brisotech Quality



产品物理特性:

Physical Properties:

条目 Items	参数值 Parameter Values	单位 Unit
密度 Density	7.60~7.80	g/cm ³
维氏硬度 Vickers Hardness	600~700	HV
抗弯强度 Bending Strength	280~300	MPa
抗拉强度 Tensile Strength	≥80	MPa
抗压强度 Compressive Strength	900~1050	MPa
电阻率 Electric Resistivity	1.5*10 ⁻⁶	Ω/m
热传导率 Thermal Conductivity	8~10	W/(M·°C)
热膨胀系数 平行于方向 Coefficient of Thermal Expansion (Parallel to the orientation)	6.5	10 ⁻⁶ /K
热膨胀系数 垂直于方向 Coefficient of Thermal Expansion (vertical to the orientation)	-1.5	10 ⁻⁶ /K
杨氏模量 Young's Modulus	160~200	GPa
比热 Specific Heat	350~550	J/(kg·°C)
失重 (低失重产品) Weight loss (low weight loss products)	≤2	mg/cm ²

磁性能参数对照表:
Magnetic Parameter:

Grade	Br		BHc		HCj		(BH)max		Working Temp.
牌号	剩磁		矫顽力		内禀矫顽力		最大磁能积		工作温度
	KGs	T	Koe	KA/m	Koe	Kj/m	MGOe	KJ/m3	℃
N35	11.7-12.2	1.17-1.22	≥10.8	≥860	≥12	≥955	33-36	263-287	≤80
N38	12.2-12.7	1.22-1.27	≥11.3	≥900	≥12	≥955	36-39	287-310	≤80
N40	12.5-12.8	1.25-1.28	≥11.4	≥908	≥12	≥955	38-41	302-326	≤80
N42	12.8-13.2	1.28-1.32	≥11.5	≥916	≥12	≥955	40-43	318-342	≤80
N45	13.2-13.7	1.32-1.37	≥11.6	≥924	≥12	≥955	43-46	342-366	≤80
N48	13.7-14.1	1.37-1.41	≥11.7	≥931	≥12	≥955	46-49	366-390	≤80
N50	14.0-14.4	1.40-1.44	≥11.7	≥931	≥12	≥955	48-51	390-406	≤80
N52	14.3-14.7	1.42-1.47	≥10.5	≥836	≥12	≥955	50-53	398-422	≤80
N35M	11.7-12.2	1.17-1.22	≥10.9	≥868	≥14	≥1114	33-36	263-287	≤100
N38M	12.2-12.7	1.22-1.27	≥11.3	≥900	≥14	≥1114	36-39	287-310	≤100
N40M	12.5-12.8	1.25-1.28	≥11.6	≥924	≥14	≥1114	38-41	302-326	≤100
N42M	12.8-13.2	1.28-1.32	≥12.0	≥955	≥14	≥1114	40-43	318-342	≤100
N45M	13.2-13.7	1.32-1.37	≥12.5	≥995	≥14	≥1114	43-46	342-366	≤100
N48M	13.7-14.1	1.37-1.41	≥12.9	≥1027	≥14	≥1114	46-49	366-390	≤100
N50M	14.0-14.4	1.40-1.44	≥13.0	≥1035	≥14	≥1114	48-51	390-405	≤100
N35H	11.7-12.2	1.17-1.22	≥11.0	≥868	≥17	≥1353	33-36	263-286	≤120
N38H	12.2-12.7	1.22-1.27	≥11.3	≥900	≥17	≥1353	36-38	286-302	≤120
N40H	12.5-12.8	1.25-1.28	≥11.6	≥924	≥17	≥1353	38-41	302-326	≤120
N42H	12.8-13.2	1.28-1.32	≥12.0	≥955	≥17	≥1353	41-43	326-342	≤120
N45H	13.2-13.7	1.32-1.37	≥12.7	≥995	≥17	≥1353	43-47	342-374	≤120
N48H	13.7-14.1	1.37-1.41	≥12.9	≥1027	≥17	≥1353	47-49	374-390	≤120
N50H	14.0-14.4	1.40-1.44	≥13.0	≥1035	≥16	≥1274	48-51	382-406	≤120
N33SH	11.4-11.7	1.14-1.17	≥10.6	≥844	≥20	≥1595	31-33	247-263	≤150
N35SH	11.7-12.2	1.17-1.22	≥11.0	≥876	≥20	≥1595	33-36	263-286	≤150
N38SH	12.2-12.7	1.22-1.27	≥11.4	≥908	≥20	≥1595	36-38	286-302	≤150
N40SH	12.5-12.8	1.25-1.28	≥11.8	≥939	≥20	≥1595	38-41	302-326	≤150
N42SH	12.8-13.2	1.28-1.32	≥12.4	≥987	≥20	≥1595	41-43	326-342	≤150
N45SH	13.2-13.7	1.32-1.37	≥12.6	≥1003	≥20	≥1595	43-47	342-374	≤150
N48SH	13.7-14.2	1.37-1.42	≥12.6	≥1003	≥20	≥1595	46-49	366-390	≤150
N33UH	11.3-11.7	1.13-1.17	≥10.7	≥852	≥25	≥1990	31-34	247-271	≤180



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Shanghai Brisotech Magnetics Co., Ltd.

N35UH	11.7-12.2	1.17-1.22	≥11.0	≥876	≥25	≥1990	33-36	263-287	≤180
N38UH	12.2-12.5	1.22-1.25	≥11.4	≥908	≥25	≥1990	36-39	287-310	≤180
N40UH	12.5-12.8	1.25-1.28	≥11.8	≥939	≥25	≥1990	38-41	302-326	≤180
N42UH	12.8-13.2	1.28-1.32	≥12.5	≥955	≥25	≥1990	40-43	318-342	≤180
N45UH	13.1-13.5	1.31-1.35	≥12.6	≥1003	≥25	≥1990	42-45	334-358	≤180
N30EH	10.8-11.3	1.08-1.13	≥10.2	≥812	≥30	≥2388	28-31	223-247	≤200
N33EH	11.3-11.7	1.13-1.17	≥10.2	≥812	≥30	≥2388	31-34	247-271	≤200
N35EH	11.7-12.2	1.17-1.22	≥11.0	≥876	≥30	≥2388	33-36	263-287	≤200
N38EH	12.2-12.5	1.22-1.25	≥11.4	≥907	≥30	≥2388	36-39	287-310	≤200
N40EH	12.5-12.8	1.25-1.28	≥11.4	≥907	≥30	≥2388	38-41	302-326	≤200
N42EH	12.8-13.1	1.28-1.31	≥11.4	≥907	≥30	≥2388	38-41	302-326	≤200

备注 Notes:

1. $1T=10KGs$, $1KOe=79.6KA/m$, $1MGOe=7.96KJ/m^3$

2. 工作温度定义为标准试样 D10*7 在此温度下, 测试开路磁通不可逆损失≤5%。

The working temperature is defined as the rate of open flux irreversible loss of the standard sample D10*7 is less than 5%.

表面处理:

Coating:

种类 Coating	镀层颜色 Surface color	物理性能 Physical Properties	使用环境 Application Condition	镀层厚度 Coating Thickness	盐雾试验 Salt spray Test
锌 Zn	蓝白色, 彩色 Blue white, colorful	表面致密, 稳定 The surface is compact, stable and uniform	具有较高的防腐能力 Have a high anticorrosion ability	5~10μm	>24hr
镍铜镍 NiCuNi	银白色, 黑色 Silvery grey, Black	镀层均匀, 致密, 表面清洁 The coating is uniform, compact and clean	适用于较为苛刻的环境中 Applicable to a more harsh environment	15~30μm	>48hr
磷化 Phospharization	灰色 Grey	均匀一致 The coating is uniform	轻微防锈 Mild antirust	1~2μm	—
黑色环氧 Black Epoxy	黑色 Black	涂层均匀, 绝缘 The coating is uniform and insulation	适用于较为苛刻的环境中 Applicable to a more harsh environment	15~30μm	>96hr
镍铜+环氧 NiCu+Epoxy	黑色 Black	涂层均匀, 绝缘 The coating is uniform and insulation	适用于极为苛刻的环境中 Applicable to an extremely harsh environment	25~45μm	>300hr