

Bonded Magnets

Characteristics & Application of Injection Bonded Magnet

Applications: Copier and laser printer rolls

Permanent motor magnets

(rotors & other components)

Magnetic rings for aerodynamic component

Color Monitor/TV purity convergence magnet

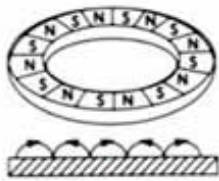
Bonders: PA6, PA12, PPS.

Characteristics: Having high dimensional precision

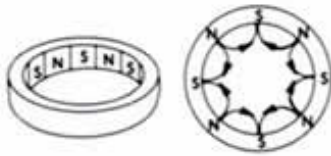
Versatile shapes and specification

Impact-resistant. advanced surface treatment technology, effectively protect.

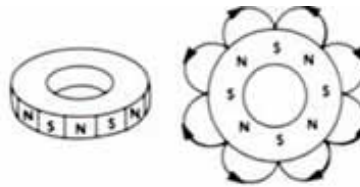
Integrated forming



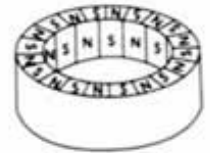
① Multi-poles or Axial



② Multi-poles in inside diameter



③ Multi-poles in outside diameter



④ Complex multi-poles

Magnetic properties Of Injection Ferrite Bonded Magnet

TYPE NO.	Br (Gs)	Hcb (Oe)	Hcj (Oe)	BH(max) (MGOe)
FBP-1103	1300	1100	2600	0.35
FBP-1113	2300	2100	3100	1.3
FBP-1115	2540	2270	3300	1.56
FBP-1116	2600	2250	2700	1.62
FBP-1117	2680	2250	2550	1.74
FBP-1118	2770	2440	3100	1.83
FBP-1119	2820	2200	2500	1.90
FBP-1120	2880	2400	2950	2.03
FBP-1121	2970	2300	2600	2.10

FBP-1122	3020	3350	2560	2.21
FBP-1211	2970	2300	2600	2.10
FBP-1213	2400	2300	3050	1.63
FBP-1215	2500	2300	2900	1.51
FBP-1216	2600	2300	2800	1.65
FBP-1217	2630	2300	2750	1.68
FBP-1218	2700	2300	2700	1.82
FBP-1219	2880	2400	2950	1.95
FBP-1220	2920	2300	2860	2.08
FBP-1221	2980	2300	2550	1.16
FBP-1222	3050	3440	2720	2.25

Physical Characteristics of Injection Ferrite Magnet

NO.	Density (g/cm ³)	Tension Strength (Kg/cm ²)	Bend Strength (Kg/cm ²)	Impact Strength (Kg*cm/cm ²)	Hardness (Rsc)	Water Absorption (%)	Heat Distortion Temp. (°C)
FBP-1103	3.4	750	1500	18.0	115	0.15	160
FBP-1113	3.4	750	1800	24.0	116	0.15	160
FBP-1115	3.37	750	1800	24.0	118	0.15	160
FBP-1116	3.45	700	1800	24.0	118	0.15	163
FBP-1117	3.53	720	1850	22.0	120	0.15	165
FBP-1118	3.62	760	1800	20.0	120	0.15	167
FBP-1119	3.65	750	1800	17.0	121	0.15	169
FBP-1120	3.71	750	1800	16.5	121	0.14	172
FBP-1121	3.76	750	1500	13.0	122	0.14	175
FBP-1122	3.81	630	1500	12.0	122	0.14	117
FBP-1211	3.76	630	1100	25.0	103	0.07	110

**Physical Magnetic
properties Of
Injection NdFeB
Bonded Magnet**

A manufacturer of Bonded magnets by injection, Injection bonded magnet.

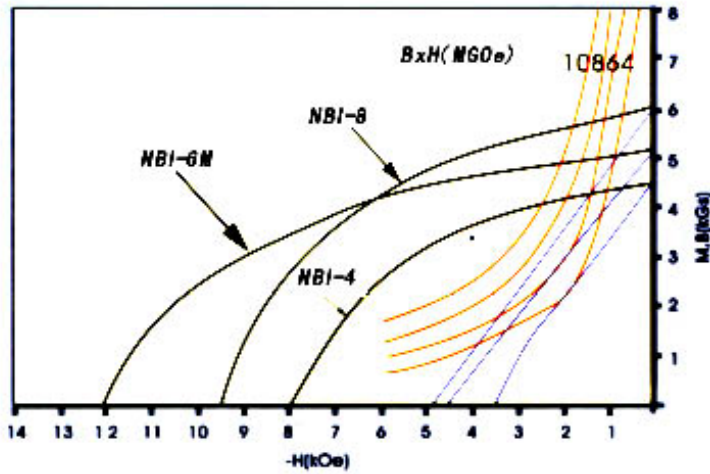
FBP-1213	3.22	630	1100	23.0	104	0.07	113	P/N	NBI- NBI-4
FBP-1215	3.30	630	1150	23.0	110	0.07	117	Br (mT)	400- 490- 490 570
FBP-1216	3.45	600	1150	21.0	112	0.05	118	bHc(kA/m)	256- 312- 312 384
FBP-1217	3.45	550	1200	20.0	112	0.05	120	iHc(kA/m)	576- 640- 736 800
FBP-1218	3.51	550	1200	19.0	114	0.05	120	(BH)max(kJ/m ³)	28- 40-5 36
FBP-1219	3.60	500	1200	17.0	115	0.04	125	Recoil permeability μ_r	1.1- 1.1- 1.22 1.22
FBP-1220	3.73	470	900	12.0	115	0.04	128	Recoil temperature coefficient of Br. (%/°C)	- -0.0 0.10 (15- (15- 100° 100 °C)
FBP-1221	3.80	450	800	12.0	115	0.04	135	Magnetizing field (Ka/m)	≧ ≧15 1592
FBP-1222	3.90	430	800	8.5	115	0.04	137	Density(g/cm ³)	4.0- 4.5- 4.5
								Ring crushing strength constant (N/mm ²)	> 78 > 78

Magnetic properties Of Injection Smco Bonded Magnet

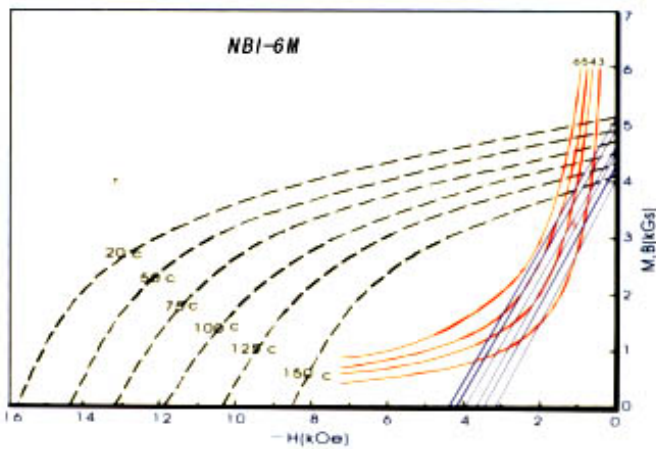
P/N	SCI-3	SCI-8
Br (mT)	300-400	550-680
bHc(kA/m)	199-279	334-462
iHc(kA/m)	716-1194	716-1194
(BH)max(kJ/m ³)	20-28	48-64
Recoil permeability μ_r	1.05-1.1	1.05-1.1

Recoil temperature coefficient of Br. (%/°C)	-0.04 (15-100°C)	-0.04 (15-100°C)
Magnetizing field (Ka/m)	≥ 2786	≥ 2786
Density(g/cm ³)	3-6	4-6
Ring crushing strength constant (N/mm ²)	> 76	> 76

Typical Demagnetization curve of Injection NdFeB Magnet



Temperature Characteristic Curve Of Injection NdFeB Magnet



- 1 [Inspection standard for permanent magnet](#)
- 1 [Purchasing Guide](#)
- 1 [Permanent magnet supply direction](#)
- 1 [Surface protection and surface coating for the permanent magnet](#)
- 1 [Quality warranty](#)

A manufacturer of Bonded magnets by injection, Injection bonded magnet.

1 [Safety principle for manual operation of permanent magnet](#)



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