

Injection Bonded NdFeB Magnets

Injection Plastic Ndfcb magnet, a kind of new-generation composite material made from permanent magnetic powder and plastic, has outstanding magnetic properties and plastic properties and features high size precision and exceptional shock resistance. It can be processed into various components with complicated shapes, thus can be used in the industries of micro or special motor, office equipment, instrument, meter, and beeper. Custom design available.



CHARACTERISTICS

- 1) Design and manufacturing of orientation moulds were carried out
- 2) Having high dimensional precision and impact-resistance. Capable of forming products with inlay.
- 3) The injection moulding parts are suitable for forming products with various shapes and thin walls.
- 4) Multi polar magnetization can be carried out according customer' requirements

APPLICATIONS

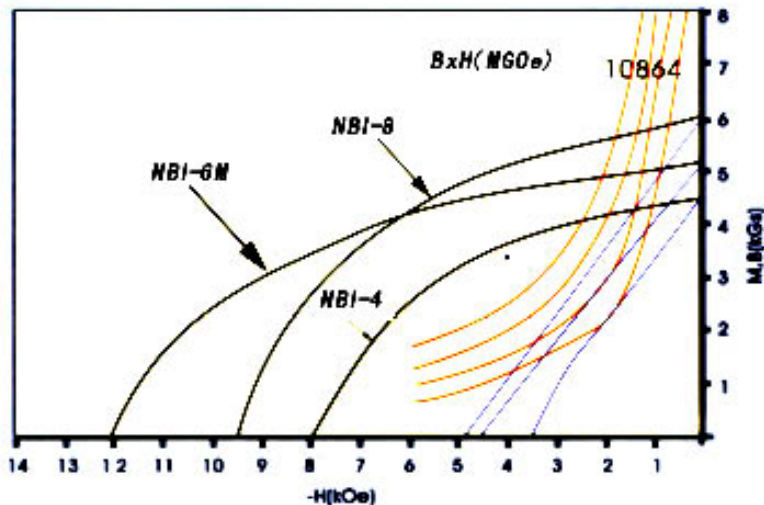
- *Different kind of micro-special motor
- *Different kind of fan motor
- *Different kind of DC motor
- *Synchronization electric motor
- *House electric apparatus
- *Ice chipper electric motor

- *Hand-operated electric generator
- *Automobile motor
- *Time gauge
- *Instruments for auto

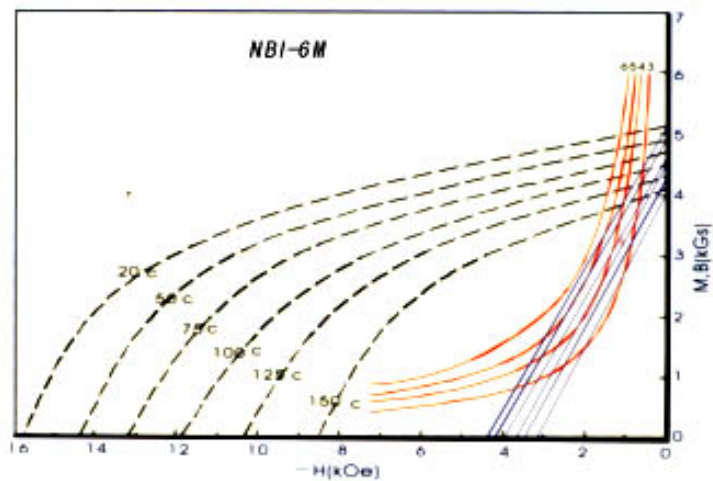
Physical Magnetic properties Of Injection NdFeB Bonded Magnet

P/N	NBI-4	NBI-6	NBI-6M	NBI-8
Br (mT)	400-490	490-570	480-560	570-630
bHc(kA/m)	256-312	312-384	336-400	382-430
iHc(kA/m)	576-736	640-800	960-1360	680-840
(BH)max(kJ/m ³)	28-36	40-56	44-60	60-68
Recoil permeability μ_r	1.1-1.22	1.1-1.22	1.1-1.22	1.1-1.22
Recoil temperature coefficient of Br. (%/°C)	-0.10 (15-100°C)	-0.09 (15-100°C)	-0.10 (15-100°C)	-0.10 (15-100°C)
Magnetizing field (Ka/m)	≥ 1592	≥ 1592	≥ 1990	≥ 1592
Density(g/cm ³)	4.0-4.5	4.5-5.5	5.0-5.5	5.0-5.5
Ring crushing strength constant (N/mm ²)	> 78	> 78	> 78	> 78

Typical Demagnetization curve of Injection NdFeB Magnet



Temperature Characteristic Curve Of Injection NdFeB Magnet



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Add :F/16, Jinyuan plaza, # 57 South Hubin.Rd, Xiamen, CHINA 361004
Tel : (86)592 2295387 (86)592 2217138 Fax: (86)592 2207122
Email To Us: susana@aaamagnet.net