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Products

Our Magnet

Magnetic Powder

Magnet Compound

Machinery

Polymer Bonded NdFeb Magnet

Mixed by magnetic powders and adhesives, bonded permanent magnets are produced through the process of forming and solidification. Anisotropic bonded magnets with stronger magnetic property can be developed. Our bonded products of NdFeB is mixing NdFeB powder with polymer binder and then pressing. In our company, press forming is adopted to manufacture all kinds of bonded magnets. With the advantages of outstanding mechanical strength and high accuracy in dimension, this kind of magnets is resistant to shock and usually further machining is not required. If necessary, the Compress Bonded NdFeB can be formed integrally with other components as well. So that lot production is easy to be implemented. Compress Bonded NdFeB have exactitude size, stable capability, excellent quality, and various specifications, and are widely used. They are world-widely sold and well appraised. Much higher corrosion resistance in comparison with sintered NdFeB magnets. We can supply such types as ring, tile/segment, slim rod and other special shapes and wide variety of size ranges.

Some of the Advantages of Polymer Bonded NdFeB Magnets

- Complex magnetization patterns
- Acceptable environmental stability after coating
- Easy processing

In our company, press forming is adopted to manufacture all kinds of bonded magnets. We can supply such types as ring, tile, slim rod and other special shapes.

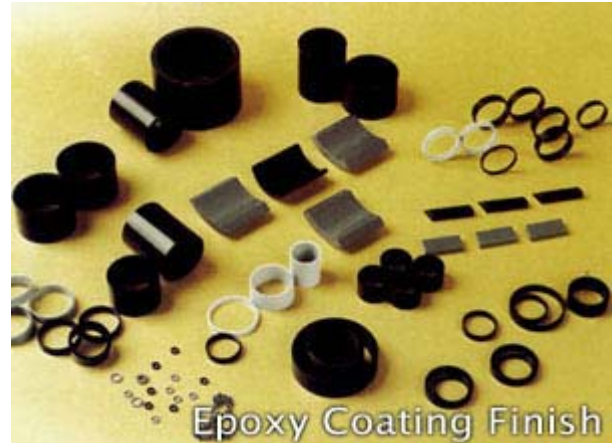
Characteristics of Polymer Bonded NdFeB:

- Excellent stability and evenness of magnetic flux density.
- Strong anti-corrosion of appearance coating.
- Suitable for making small volume magnet with complex shape.
- Regular shape, precision size.
- Strong anti-demagnetization

Application of Polymer Bonded NdFeB:

Bonded magnets are widely used in all kinds of DC brushless motor of automotive, stepping motor, lighter, sensor; HDD(PC disk), stator or rotor of spindle driver of harddisk, CD-ROM, DVD; Printer, electronic clock, audio and electric tools; Mobile phone and BP vibration motor, micro-special motors, automobile's electric motors, auto-controlling devices, transducers, drives, electronic communication devices, instruments and appliances.

Professional Cordless Powder Tools Offer Opportunities for Expanded use of Bonded Neo.



Epoxy Coating Finish



Nickel Plating Finish

Issues Limiting Expanded Use:

1. Cost of Material (\$/MGOe)
 2. Thermal Demagnetization
 3. Ease of Magnetization
 4. Corrosion Resistance
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Magnetic properties of Polymer bonded NdFeB Magnets

P/N	Br Remanence		Hcj Intrinsic Coercivity		Hcb Coercive Force		(BH)max. Maximum Energy Product	
	MT	kG	kA/m	kOe	kA/m	kOe	KJ/m ³	MGOe
NdFeB-NB6	440-560	4.40-5.60	560-680	7.0-8.5	240-320	3.0-4.0	32-48	4.0-6.0
NdFeB-NB8	540-640	5.40-6.40	640-720	8.0-9.0	320-400	4.0-5.0	48-64	6.0-8.0
NdFeB-NB8M	540-620	5.40-6.20	1040-1360	13.0-17.0	384-464	4.8-5.8	56-72	7.0-9.0
NdFeB-NB10	620-700	6.20-7.00	608-800	7.6-10.0	360-456	4.5-5.7	64-80	8.0-10.0
NdFeB-NB12	690-760	6.90-7.60	640-840	8.0-10.5	400-480	5.0-6.0	80-96	10.0-12.0

Physical Characteristics of bonded NdFeB Magnets

P/N	μ_{rec} Recoil Permeability	Hs Magnetizing Field	O Density	Temperature Coefficient			Tc Curie Temperature	$K^{[2]}$ Ring Crushing Strength	Coefficient of Thermal Expansion (25-200°C)
	μ_{rec}	kA/m	g/cm ³	kOe	$\alpha(Br)$ %/°C	$\beta(Hcj)$ %/°C	°C	kg/mm ²	10 ⁻⁶ /°C
NdFeB-NB6	1.22	√1600	5.1-5.6	√20	-0.14	-0.40	360	√5.5	4.8
NdFeB-NB8	1.22	√1600	5.4-5.8	√20	-0.13	-0.40	360	√5.5	4.8
NdFeB-NB8M	1.18	√2000	5.8-6.0	√25	-0.12	-0.38	305	√5.5	4.8
NdFeB-NB10	1.22	√1600	5.8-6.0	√20	-0.11	-0.40	360	√5.5	4.8
NdFeB-NB12	1.17	√1600	5.9-6.1	√20	-0.11	-0.41	360	√5.5	4.8