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Competitive Labor Cost Export From China To Oversea Fast Catch up Bonded tech

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**Products** Our Magnet

Magnetic Powder

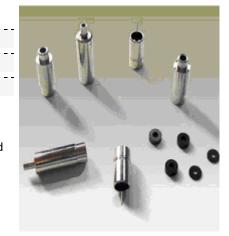
Magnet Compound

## **Polymer Bonded SmCo magnet**

Some of the Advantages of Polymer Bonded SmCo Magnets

- Higher maximum operating temperature
- Environmentally more stable
- Smaller temperature coefficient

Bonded magnet is made through "compression molding" or "injection molding" of the mixture of quick-quenched NdFeB magnetic powder and bonding agent. Bonded SmCo magnet is made by grinding sintered SmCo magnets. SmCo powder is mixed with resin and molded like Nd-Fe-B plastic bonded magnet and has been produced without secondary processing. For bonded SmCo magnet has high resistance to corrosion, it is free of coating. Due to its high accuracy in size, the bonded SmCo magnet may be formed into magnetic components of relatively complicated shapes. Produced with high efficiency, stability and repeatability, bonded SmCo magnet and other part may form together in one step; Free



choice of magnetizing direction-especially for multi-polar applications; High dimensional accuracy-large quantity applications with minimum post-press machining; Thin-wall ring and complex shape magnets; High resistance to corrosion.

## The Polymer bonded SmCo magnet has the following advantages:

- 1. It is an isotropic magnet with high magnetic properties.
- It can be magnetized through any direction, suitable to make radially-magnetized or axially-magnetized multipolar magnet.
- It has high-precision dimension.
- It has many types of shapes and specifications.
- It is not easy to be eroded, due to advanced technology of surface.

## Magnetic properties of Polymer bonded SmCo magnets by compressing moulding:

Grade	Br	НсВ	НсЈ	BHmax	Tc.	Tw.	aBr	411.07
	[mT] [Gs]	KA/m] [Oe]	[KA/m] [Oe]	[kJ/m <sup>3</sup> ] [MGOe]	[℃]	[℃]	[%/℃]	ALLOY Series
SB6A	400   4000	278   3500	800   10000	32   4.0	720	120	-0.08	1:5
SB8A	500   5000	318   4000	800   10000	48   6.0	720	120	-0.08	
SB10B	600   6000	358   4500	800   10000	64   8.0	720	120	-0.08	
SB12B	700   7000	318   4000	400   5000	80   10.0	720	120	-0.08	2:17
SB12HB	700	398   5000	800   10000	80   10.0	720	120	-0.08	