

Bonded SmCo magnet

Our bonded SmCo is made with ground sintered SmCo magnet. The powder is mixed with resin and molded like NdFeB bonded magnet. Various shapes of high dimensional accuracy can be produced without further processing. Due to excellent corrosion resistance, coating is not required.

Compression bonded magnets are available using many isotropic neodymium iron boron material grades as well as crushed & powdered samarium cobalt materials. Combinations of different material grades may also be used to create specific magnetic characteristics. Compression bonded magnets offers higher magnetic strength than injection molded magnets due to their higher magnetic particle density, but are limited to simpler geometries. The epoxy binder used is resistant to normal industrial solvent and automotive fluids. To reduce corrosion of the rare earth magnetic materials, they are further coated with epoxy after shaping. The normal application temperatures range from below -40°C to above 165°C .

Compression bonding is most appropriate for relatively simple geometries due to limitations of the compaction process. The tooling costs for compression bonding is comparatively low, making it a better choice than injection molding where volumes are small. However, with modest automation, compression bonding can also be adopted for high volume manufacturing, with volumes upto millions of pieces per year.



Magnetic properties of bonded SmCo magnets by compressing moulding:

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

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