

Smco-magnet

Samarium Cobalt (SmCo) magnets, of the Rare Earth class, have been available since the early 1970's. These magnets possess very high magnetic properties, excellent thermal stability, while remaining resistant to corrosion. These characteristics make SmCo magnets ideal for applications requiring a resistance to wide-ranging temperatures and environments.

SmCo magnets are manufactured by sintering or compression bonding. They are anisotropic and can only be magnetized in the direction of orientation. In general, magnetizing fields of approximately 30 to 45KOe are required to saturate SmCo magnets.

Key application:

- The characteristics of Samarium Cobalt Magnet
- Very high magnetic properties with good stability.
- Superior resistance to high temperature,Curie temperature of majority is over 800°C
- Excellent corrosion resistance capability,no coating is needed for surface protection.



products name: Smco-magnet

Model No:Smco-magnet

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Typical Magnetic Performance for Sintered SmCo

Grade	Br	HcB	HcJ	(BH)max	Curie Temp.	Temp.Coe	working T.	ALLOY Series
	[mT] [Gs]	[KA/m] [Oe]	[KA/m] [Oe]	[KJ/m3] [MGOe]]	[°C]	[%/°C]	[°C]	
SmCo18	800 8000	640 8000	1430 18000	144 18.0	750	0.04	250	1:5
SmCo20	850 8500	640 8000	1590 20000	160 20.0	750	0.04	250	
SmCo22	900 9000	650 8200	1430 18000	176	750	0.04	250	

				22.0				
SmCo24	980 9800	676 8500	1430 18000	192 24.0	800	0.04	300	2:17
SmCo26L	1050 10500	410 5150	432 5430	208 26.0	800	0.04	300	
SmCo26	1000 10000	716 9000	1194 15000	208 26.0	800	0.04	300	
SmCo26M	1000 10000	716 9000	1590 20000	208 26.0	800	0.04	300	
SmCo28	1030 10300	760 9500	1430 18000	224 28.0	800	0.04	300	
SmCo28H	1030 10300	760 9500	1590 20000	224 28.0	800	0.04	300	
SmCo30H	1100 11000	480 6000	560 7000	240 30.0	800	0.04	300	

Typical Magnetic Performance for Bonded SmCo

Grade	Br	HcB	HcJ	(BH)max	Curie Temp.	Temp.Coe	working T.	IEC standard
	[mT]	[KA/m]	[KA/m]	[KJ/m3]	[°C]	[%/°C]	[°C]	IEC Equivalent
	[Gs]	[Oe]	[Oe]	[MGOe]				
SB6A	400	278	800	32	720	0.1	20	1:5
	4000	3500	10000	4.0				
SB8A	500	318	800	48	720	0.1	120	
	5000	4000	10000	6.0				
SB10B	600	358	800	64	720	0.1	120	
	6000	4500	10000	8.0				
SB12B	700	318	400	80	720	0.1	120	2:17
	7000	4000	5000	10.0				
SB12HB	700	398	800	80	720	0.1	100	
	7000	5000	10000	10.0				

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