

Supermax

釹鈷磁石

SmCo Magnet

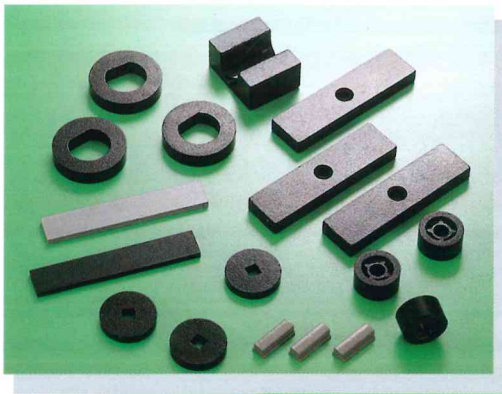
釹鈷磁石主要由金屬釹、鈷和其它一些稀土元素構成的永久磁體。具有較高的磁能積、極低的溫度系數，其使用溫度可高達350℃。同時具有很強的抗腐蝕性和抗氧化性。因此，釹鈷磁石通常不需要作電鍍處理，且被廣泛應用在馬達、儀表、傳感器、探測器、發動機、雷達及其它高科技領域。

SmCo magnet is a high performance, low temperature coefficient permanent magnet which is made of samarium and cobalt and other rare-earth elements. The high working temperature up to 350 degree centigrade is its biggest advantage. It needn't to be coated because it is difficult to be eroded and oxidized. SmCo magnet is widely used in motors, watches, transducers, instruments, positional detectors, generators, radars and etc.

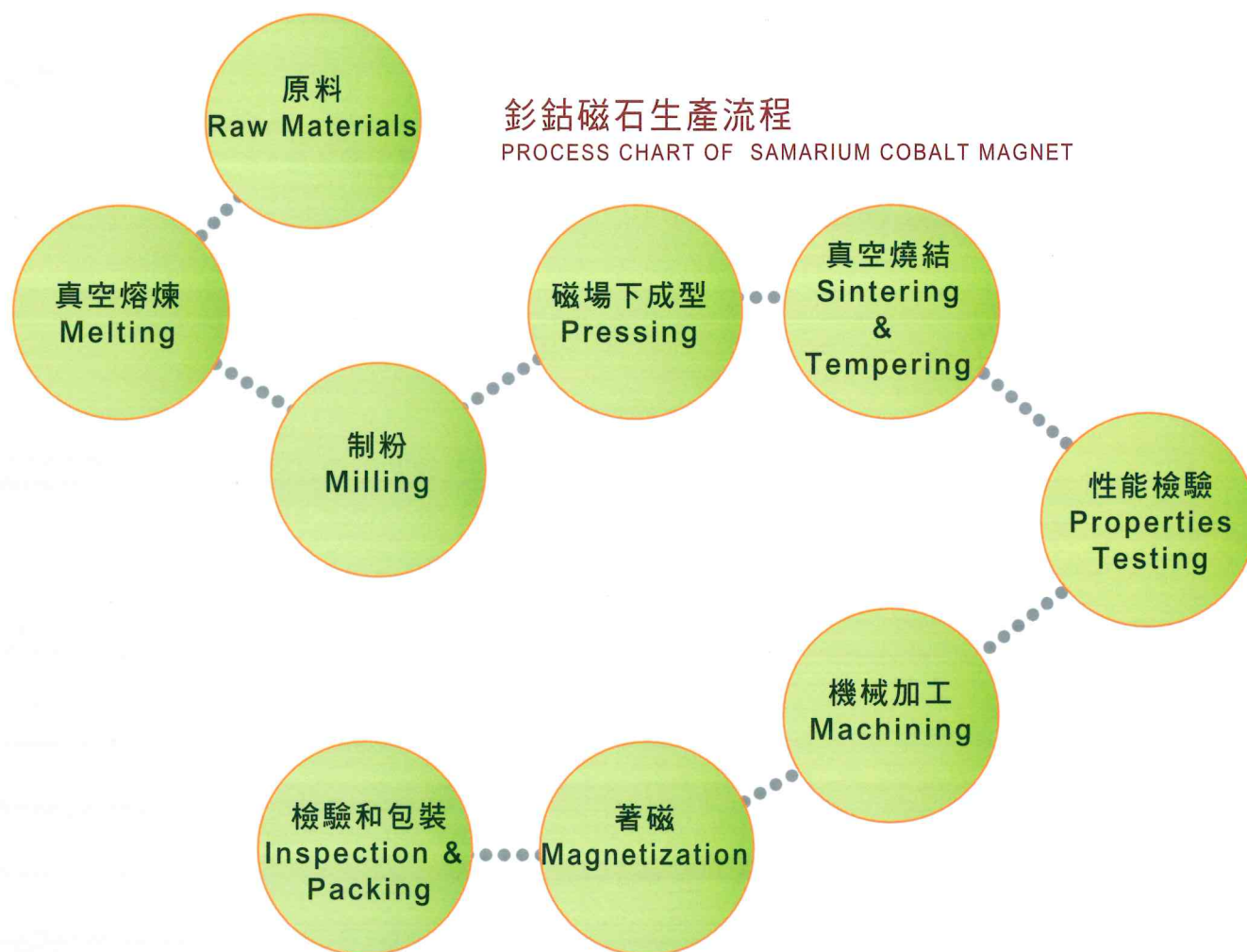
釹鈷(SmCo)磁性能及特性表

MAGNETIC CHARACTERISTICS OF SmCo MAGNET

PROPERTY CODE 牌號 性能	殘留磁束密度 Br mT (K G)	矯頑力 bHc KA/m (K Oe)	內稟矯頑力 bHc KA/m ³ (K Oe)	最大磁能積 (BH)max KJ/m ³ (MGOe)	居禮溫度 Tc °C	最高工作溫度 Tw °C
SmCo5	850~900	620~648	1194~1513	127~143	750	250
YX-18	(8.5~9.0)	(7.8~8.2)	(15~19)	(16~18)		
SmCo5	920~960	653~717	1194~1513	150~167	750	250
YX-20	(9.2~9.6)	(8.2~9.0)	(15~19)	(19~21)		
SmCo5	960~1000	730~770	1194~1513	175~190	750	250
YX-24	(9.6~10.0)	(9.2~9.7)	(15~19)	(22~24)		
Sm2Co17	950~1020	637~732	1433~1990	175~190	800	300
YXG-24	(9.5~10.2)	(8.0~9.2)	(18~25)	(22~24)		
Sm2Co17	1020~1050	748~796	1433~1990	195~215	800	300
YXG-26	(10.2~10.5)	(9.4~10.0)	(18~25)'	(24~26)		
Sm2Co17	1050~1080	756~796	1433~1831	205~220	800	300
YXG-28	(10.5~10.8)	(9.5~10.0)	(18~23)	(26~28)		
Sm2Co17	1050~1080	≥420	440~520	205~220	800	300
YXG-28B	(10.5~10.8)	(5.2~5.6)	(5.5~6.5)	(26~28)		
Sm2Co17	1080~1100	780~835	1433~1990	220~240	800	300
YXG-30	(10.8~11.0)	(9.8~10.5)	(18~25)	(28~30)		
Sm2Co17	1080~1150	≥420	440~520	220~240	800	300
YXG-30B	(10.8~11.5)	(5.2~5.6)	(5.5~6.5)	(28~30)		



Supermax



鈔鈷磁石之物理特性表 SmCo PHYSICAL PROPERTIES	SmCo5	Sm2Co17
Br溫度係數 Temperature Coefficient of Br (% / °C)	-0.05	-0.03
IHc溫度係數 Temperature Coefficient of iHc (% / °C)	-0.3	-0.2
居禮溫度 Curie Temperature (°C)	700~750	800~850
密度 Density (g / cm ³)	8.2~8.4	8.3~8.5
韋氏硬度 Vickers Hardness (HV)	450~500	500~600
工作溫度 Working Temperature (°C)	250	300



秀越實業股份有限公司
Supermax Co., Ltd.

台北市中山北路五段718號
718, Chung Shan N. Rd., Sec. 5, Taipei, Taiwan, R.O.C.
Tel : 886-2-2831-1302 (Rep) Fax : 886-2-2831-1304
E-mail : sales@supermaxtw.tw
http://www.supermaxtw.com