



## 产品展示 Product Exhibition

### 钐钴永磁 SmCo magnet

钐钴永磁主要由金属钐、钴和其它一些稀土元素构成的永久磁体。  
SmCo magnet are made of samarium and cobalt and other rare-earth elements.



#### 特点

具有较高的磁能积

极低的温度系数并耐高温，其使用温度可高达350℃

具有很强的抗腐蚀性和抗氧化性，通常不需要作电镀处理。

#### 应用

广泛用于航空航天、国防军事、微波器件、传感器、汽车部件、高温机电、磁力传动装置、探测器、电子仪表、医疗器件、机械等领域。

#### Characteristics

High Performance

Low temperature coefficient, high working temperature  
---350 degree centigrade.

It needn't to be coated because it is difficult to be eroded and oxidized.

#### Application

Motors, Aviation and Spaceflight, National Defense and Military Affairs, Microwave Appliance, Medical Apparatus, Auto Industry, Machine Gearings, Sensors, Meters and Instruments.



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## 钐钴生产流程 Production Chart of SmCo Magnet



## 钐钴的磁性能和物理性能 Magnetic and Physical Properties of SmCo Magnet

材料 Material	牌号 Grades	剩磁 Remanence		矫顽力 Coercive Force		内禀矫顽力 Intrinsic Coercivity		最大磁能积 Maximum Energy Product		密度 Density	温度系数 Temp. Coefficient	温度系数 Temp. Coefficient	居里温度 Curie Temp.	最高工作温度 Temp. Coefficient
		Br		Hcb		Hcj		(BH)max						
		T	KGs	KA/m	KOe	KA/m	KOe	KJ/m <sup>3</sup>	MGOe					
钐钴1: 5 (SmPr) Co5 SmCo5	SmCo-16	0.81-0.85	8.1 8.5	620-660	7.8-8.3	1194-1830	15-23	110-127	14-16	8.3	-0.05	-0.3	750	250
	SmCo-18	0.85-0.90	8.5-9.0	660-700	8.3-8.8	1194-1830	15-23	127-143	16-18	8.3	-0.05	-0.3	750	250
	SmCo-20	0.9-0.94	9.0-9.4	680-725	8.5-9.1	1191-1830	15-23	150-167	19-21	8.3	-0.05	-0.3	750	250
	SmCo-22	0.92-0.96	9.2-9.6	710-750	8.9-9.4	1194-1830	15-23	160-175	20-22	8.3	-0.05	-0.3	750	250
	SmCo-24	0.96-1.0	9.6-10.0	730-770	9.2-9.7	1194-1830	15-23	175-190	22-24	8.3	-0.05	-0.3	750	250
钐钴1: 5 SmCo5	SmCo-20s	0.9-0.94	9.0-9.4	680-725	8.5-9.1	1433-1830	18-23	143-160	18-20	8.3	-0.045	-0.28	750	250
	SmCo-22s	0.92-0.96	9.2-9.6	710-750	8.9-9.4	1433-1830	18-23	160-175	20-22	8.3	-0.045	-0.28	750	250
	SmCo-24H	0.95-1.02	9.5-10.2	700-750	8.7-9.4	≥1990	≥25	175-191	22-24	8.4	-0.03	-0.2	800	350
	SmCo-26H	1.02-1.05		750-780	9.4-9.8	≥1990	≥25	191-207	24-26	8.4	-0.03	-0.2	800	350
	SmCo-28H	1.03-1.08	10.3-10.8	756-796	9.5-10	≥1990	≥25	207-220	26-28	8.4	-0.03	-0.2	800	350
钐钴2: 17 (CoFeCuZr) Sm2Co17	SmCo-30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	220-240	28-30	8.4	-0.03	-0.2	800	350
	SmCo-24	0.95-1.02	9.5-10.2	700-750	8.7-9.4	≥1433	≥18	175-191	22-24	8.4	-0.03	-0.2	800	300
	SmCo-26	1.02-1.05	10.2-10.5	750-780	9.4-9.8	≥1433	≥18	191-207	24-26	8.4	-0.03	-0.2	800	300
	SmCo-28	1.03-1.08	10.3-10.8	756-796	9.5-10	≥1433	≥18	207-220	26-28	8.4	-0.03	-0.2	800	300
	SmCo-30	1.08-1.10	10.8-11.0	788-835	9.9-10.2	≥1433	≥18	220-240	28-30	8.4	-0.03	-0.2	800	300
	SmCo-26M	1.02-1.05	10.2-10.5	750-780	9.4-9.8	955-1273	12-16	191-207	24-26	8.4	-0.03	-0.2	800	300
	SmCo-3028M	1.03-1.08	10.3-10.8	756-796	9.5-10.0	955-1273	12-16	207-220	26-28	8.4	-0.03	-0.2	800	300
	SmCo-30M	1.08-1.10	10.8-11.0	788-835	9.9-10.5	955-1273	12-16	220-240	28-30	8.4	-0.03	-0.2	800	300
	SmCo-28L	1.02-1.08	10.2-10.8	413-716	5.2-9.0	438-796	5.5-10	207-220	26-28	8.4	-0.03	-0.2	800	250
	SmCo-30L	1.08-1.15	10.8-11.5	413-11.5	5.2-9.0	438-796	5.5-10	220-240	28-30	8.3	-0.03	-0.2	800	250