

SINTERED SmCo MAGNETS

Typical Magnetic Properties

Grade	Max. Energy Product		Remanence		Coercive Force				Rev. Temp. Coeff.		Working Temp.	Density
	(BH) _{max}		B _r		H _c		H _{ci}		B _d	H _d	T _w	D
	MGOe	kJ/m ³	kG	mT	kOe	kA/m	kOe	kA/m	%/°C	%/°C	°C	g/cm ³
SmCo ₅ 16A	16.0	130.0	8.2	820	7.5	600	>16.0	>1270	-0.05	0.25	250	8.4
SmCo ₅ 16B	16.0	130.0	8.2	820	7.5	600	>20.0	>1590	-0.05	0.25	250	8.4
SmCo ₅ 18A	18.0	146.3	8.7	870	8.2	656	>16.0	>1272	-0.05	0.25	250	8.4
SmCo ₅ 18B	18.0	146.3	8.7	870	8.2	656	>20.0	>1590	-0.05	0.25	250	8.4
SmCo ₅ 20A	20.0	162.5	9.0	900	8.6	690	>16.0	>1272	-0.05	0.25	250	8.4
SmCo ₅ 20B	20.0	162.5	9.0	900	8.6	690	>20.0	>1590	-0.05	0.25	250	8.4
SmCo ₅ 22A	22.0	178.8	9.5	950	9.1	728	>16.0	>1272	-0.05	0.25	250	8.4
SmCo ₅ 22B	22.0	178.8	9.5	950	9.1	728	>20.0	>1590	-0.05	0.25	250	8.4
Sm ₂ Co ₁₇ 24	24.0	195.0	10.0	1000	9.5	760	>20.0	>1590	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 26A	26.0	211.3	10.6	1060	9.8	784	>16.0	>1272	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 26B	26.0	211.3	10.6	1060	9.8	784	>20.0	>1590	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 26H	26.0	211.3	10.6	1060	9.8	784	>26.0	>2067	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 28A	28.0	227.5	10.9	1090	10.0	800	>16.0	>1272	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 28B	28.0	227.5	10.9	1090	10.0	800	>20.0	>1590	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 28H	28.0	227.5	10.9	1090	10.0	800	>26.0	>2067	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 30A	30.0	243.8	11.0	1100	10.2	816	>16.0	>1272	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 30B	30.0	243.8	11.2	1120	10.2	816	>20.0	>1590	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 32	31.0	251.8	11.5	1150	10.0	800	>15.0	>1192	-0.03	0.23	300	8.3
Sm ₂ Co ₁₇ 25H	25.0	203.2	10.5	1050	9.7	776	>35.0	>2782	-0.03	0.23	375	8.3

ISO 9002 Quality Standard Certified
Special properties can be achieved with custom method.

Physical and Manufacturing Characteristics

Hardness	HV 10
Compression Strength	300 - 900 N/mm ²
Bending Strength	120 N/mm ²
Modulus	1.2-2.0x10 ⁴ N/mm ³
Electrical Resistance at 20°C	>0.5 ohm-cm
Specific Heat Capacity	370 J/(kg.C)

1. The minimum dimension is 0.079" Diameter.
2. All shapes and properties can be supplied to meet customers' requirements.