



钕钴磁性能和物理特性 Magnetic Characteristics and Physical Properties of SmCo

材料	性能	剩磁感应强度		矫顽力		内禀矫顽力		最大磁能积		居里温度	最高工作温度	(Br) 剩磁温度系数	Hcj内禀矫顽力温度系数
Material	Properties	Remanence		Coercive Force		Intrinsic Coercive Force		Max. Energy		Curie temperature	Max Working Temp.	-	-
-	牌号	Br		HcB		HcJ		(BH) max		TC	Tw.	-	-
-	Grade	T	kGs	kA/m	KOe	kA/m	KOe	KJ/m3	MGOe	℃	℃	%℃	%℃
Sm1Co5	YX-16	0.81-0.85	8.1-8.5	620-660	7.8-8.3	1194-1830	15-23	110-127	14-16	750	250	-0.050	-0.30
Sm1Co5	YX-18	0.85-0.90	8.5-9.0	660-700	8.3-8.8	1194-1830	15-23	127-143	16-18	750	250	-0.050	-0.30
Sm1Co5	YX-20	0.90-0.94	9.0-9.4	676-725	8.5-9.1	1194-1830	15-23	150-167	19-21	750	250	-0.050	-0.30
Sm1Co5	YX-22	0.92-0.96	9.2-9.6	710-748	8.9-9.4	1194-1830	15-23	160-175	20-22	750	250	-0.050	-0.30
Sm1Co5	YX-24	0.96-1.00	9.6-10.0	730-770	9.2-9.7	1194-1830	15-23	175-190	22-24	750	250	-0.050	-0.30
Sm1Co5	YX-16s	0.79-0.84	7.9-8.4	612-660	7.7-8.3	≧ 1830	≧ 23	118-135	15-17	750	250	-0.035	-0.28
Sm1Co5	YX-18s	0.84-0.89	8.4-8.9	644-692	8.1-8.7	≧ 1830	≧ 23	135-151	17-19	750	250	-0.040	-0.28
Sm1Co5	YX-20s	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≧ 1830	≧ 23	150-167	19-21	750	250	-0.045	-0.28
Sm1Co5	YX-22s	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≧ 1830	≧ 23	167-183	21-23	750	250	-0.045	-0.28
Sm1Co5	YX-24s	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≧ 1830	≧ 23	183-199	23-25	750	250	-0.045	-0.28
(SmGd) Co5	LTc(YX-10)	0.62-0.66	6.2-6.6	485-517	6.1-6.5	≧ 1830	≧ 23	75-88	9.5-11	750	300	温度范围 Temp. Range 20-100℃ 100-200℃ 200-300℃	Br温度系数%℃ +0.0156%℃ +0.0087%℃ +0.0007%℃
Sm2Co17	YX-12	0.70-0.74	7.0-7.4	358-390	4.5-4.9	358-478	4.5-6	80-103	10-13	450	200		
Sm2Co17	YXG-24H	0.95-1.02	9.5-10.2	692-764	8.7-9.6	≧ 1990	≧ 25	175-191	22-24	800	350	-0.025	-0.20
Sm2Co17	YXG-26H	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≧ 1990	≧ 25	191-207	24-26	800	350	-0.030	-0.20
Sm2Co17	YXG-28H	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≧ 1990	≧ 25	207-220	26-28	800	350	-0.035	-0.20
Sm2Co17	YXG-30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≧ 1990	≧ 25	220-240	28-30	800	350	-0.035	-0.20
Sm2Co17	YXG-32H	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≧ 1990	≧ 25	230-255	29-32	800	350	-0.035	-0.20
Sm2Co17	YXG-22	0.93-0.97	9.3-9.7	676-740	8.5-9.3	≧ 1433	≧ 18	160-183	20-23	800	300	-0.020	-0.20
Sm2Co17	YXG-24	0.95-1.02	9.5-10.2	692-764	8.7-9.6	≧ 1433	≧ 18	175-191	22-24	800	300	-0.025	-0.20
Sm2Co17	YXG-26	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≧ 1433	≧ 18	191-207	24-26	800	300	-0.030	-0.20
Sm2Co17	YXG-28	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≧ 1433	≧ 18	207-220	26-28	800	300	-0.035	-0.20
Sm2Co17	YXG-30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≧ 1433	≧ 18	220-240	28-30	800	300	-0.035	-0.20
Sm2Co17	YXG-32	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≧ 1433	≧ 18	230-255	29-32	800	300	-0.035	-0.20
Sm2Co17	YXG-26M	1.02-1.05	10.2-10.5	676-780	8.5-9.8	955-1433	12-18	191-207	24-26	800	300	-0.035	-0.20
Sm2Co17	YXG-28M	1.03-1.08	10.3-10.8	676-796	8.5-10.0	955-1433	12-18	207-220	26-28	800	300	-0.035	-0.20



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材料	性能	剩磁感应强度		矫顽力		内禀矫顽力		最大磁能积		居里温度	最高工作温度	(Br) 剩磁温度系数	Hcj内禀矫顽力温度系数
Material	Properties	Remanence		Coercive Force		Intrinsic Coercive Force		Max. Energy		Curie temperature	Max Working Temp.	-	-
-	牌号	Br		HcB		HcJ		(BH) max		TC	Tw.	-	-
-	Grade	T	kGs	kA/m	KOe	kA/m	KOe	KJ/m3	MGOe	℃	℃	%℃	%℃
Sm2Co17	YXG-30M	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	220-240	28-30	800	300	-0.035	-0.20
Sm2Co17	YXG-32M	1.10-1.13	11.0-11.3	676-852	8.5-10.7	955-1433	12-18	230-255	29-32	800	300	-0.035	-0.20
Sm2Co17	YXG-24L	0.95-1.02	9.5-10.2	541-716	6.8-9.0	636-955	8-12	175-191	22-24	800	250	-0.025	-0.20
Sm2Co17	YXG-26L	1.02-1.05	10.2-10.5	514-748	6.8-9.4	636-955	8-12	191-207	24-26	800	250	-0.035	-0.20
Sm2Co17	YXG-28L	1.03-1.08	10.3-10.8	541-764	6.8-9.6	636-955	8-12	207-220	26-28	800	250	-0.035	-0.20
Sm2Co17	YXG-30L	1.08-1.15	10.8-11.5	541-791	6.8-10.0	636-955	8-12	220-240	28-30	800	250	-0.035	-0.20
Sm2Co17	YXG-32L	1.1-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	230-255	29-32	800	250	-0.035	-0.20
(SmEr) 2 (CoTM) 17	TC(YXG-22	0.94-0.98	9.4-9.8	668-716	8.4-9.0	≧ 1433	≧ 18	167-183	21-23	840	300	温度范围 Temp. Range -20-25℃ 20-100℃ 100-200℃ 200-300℃	Br温度系数%℃ +0.005%℃ -0.008%℃ -0.008%℃ -0.011%℃

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