

# サマリウムコバルト磁石の磁気特性

Magnetic properties of Sintered Sm-Co magnets

材料 Materials	品番 Grades	残留磁束密度 Remanence		保磁力 Coercive Force		保磁力 Intrinsic Coercivity		最大エネルギー積 Maximum Energy Product		キュリー温度 Curie Temp. °C	温度係数 (Br) Temp. Coefficient of Br %/°C	温度係数 (Hcj) Temp. Coefficient of Hcj %/°C
		Br		Hcb		Hcj		(BH)max				
		T	KG	KA/m	KOe	KA/m	KOe	kJ/m <sup>3</sup>	MGOe			
Sm-Co1:5 (SmPr)Cos SmCos	TSC-16	0.81-0.85	8.1 - 8.5	620 - 660	7.8 - 8.3	1194 - 1830	15 - 23	110 - 127	14 - 16	750	-0.050	-0.30
	TSC-18	0.85-0.90	8.5 - 9.0	660 - 700	8.3 - 8.8	1194 - 1830	15 - 23	127 - 143	16 - 18	750	-0.050	-0.30
	TSC-20	0.90-0.94	9.0 - 9.4	676 - 725	8.5 - 9.1	1194 - 1830	15 - 23	150 - 167	19 - 21	750	-0.050	-0.30
	TSC-22	0.92-0.96	9.2 - 9.6	710 - 748	8.9 - 9.4	1194 - 1830	15 - 23	160 - 175	20 - 22	750	-0.050	-0.30
	TSC-24	0.96-1.00	9.6 - 10.0	730 - 770	9.2 - 9.7	1194 - 1830	15 - 23	175 - 190	22 - 24	750	-0.050	-0.30
Sm-Co1:5 SmCos	TSC-16s	0.79-0.84	7.9 - 8.4	612 - 652	7.7 - 8.2	≥1830	≥23	118 - 135	15 - 17	750	-0.035	-0.30
	TSC-18s	0.84-0.89	8.4 - 8.9	644 - 684	8.1 - 8.6	≥1830	≥23	131 - 151	17 - 19	750	-0.040	-0.30
	TSC-20s	0.89-0.93	8.9 - 9.3	684 - 724	8.6 - 9.1	≥1830	≥23	150 - 167	19 - 21	750	-0.045	-0.30
	TSC-22s	0.92-0.96	9.2 - 9.6	710 - 748	8.9 - 9.4	≥1830	≥23	167 - 183	21 - 23	750	-0.045	-0.30
	TSC-24s	0.96-1.00	9.6 - 10.0	740 - 780	9.3 - 9.8	≥1830	≥23	183 - 199	23 - 25	750	-0.045	-0.30
Sm-Co2:17 Sm <sub>2</sub> (CoFeCuZr) <sub>17</sub> Sm <sub>2</sub> Co <sub>17</sub>	TSCG-24H	0.95-1.02	9.5 - 10.2	692 - 764	8.7 - 9.6	≥1990	≥25	175 - 191	22 - 24	800	-0.025	-0.20
	TSCG-26H	1.02-1.05	10.2 - 10.5	748 - 796	9.4 - 10.0	≥1990	≥25	191 - 207	24 - 26	800	-0.030	-0.20
	TSCG-28H	1.03-1.08	10.3 - 10.8	756 - 812	9.5 - 10.2	≥1990	≥25	207 - 220	26 - 28	800	-0.035	-0.20
	TSCG-30H	1.08-1.10	10.8 - 11.0	788 - 835	9.9 - 10.5	≥1990	≥25	220 - 240	28 - 30	800	-0.035	-0.20
	TSCG-32H	1.10-1.13	11.0 - 11.3	812 - 844	10.2 - 10.6	≥1990	≥25	230 - 255	29 - 32	800	-0.035	-0.20
	TSCG-22	0.93-0.97	9.3 - 9.7	676 - 740	8.5 - 9.3	≥1433	≥18	160 - 183	20 - 23	800	-0.020	-0.20
	TSCG-24	0.95-1.02	9.5 - 10.2	692 - 764	8.7 - 9.6	≥1433	≥18	175 - 191	22 - 24	800	-0.025	-0.20
	TSCG-26	1.02-1.05	10.2 - 10.5	748 - 796	9.4 - 10.0	≥1433	≥18	191 - 207	24 - 26	800	-0.030	-0.20
	TSCG-28	1.03-1.08	10.3 - 10.8	756 - 812	9.5 - 10.2	≥1433	≥18	207 - 220	26 - 28	800	-0.035	-0.20
	TSCG-30	1.08-1.10	10.8 - 11.0	788 - 835	9.9 - 10.5	≥1433	≥18	220 - 240	28 - 30	800	-0.035	-0.20
	TSCG-32	1.10-1.13	11.0 - 11.3	812 - 851	10.2 - 10.7	≥1433	≥18	230 - 255	29 - 32	800	-0.035	-0.20
	TSCG-26M	1.02-1.05	10.2 - 10.5	676 - 780	8.5 - 9.8	955 - 1433	12 - 18	191 - 207	24 - 26	800	-0.035	-0.20
	TSCG-28M	1.03-1.08	10.3 - 10.8	676 - 796	8.5 - 10.0	955 - 1433	12 - 18	207 - 220	26 - 28	800	-0.035	-0.20
	TSCG-30M	1.08-1.10	10.8 - 11.0	676 - 835	8.5 - 10.5	955 - 1433	12 - 18	220 - 240	28 - 30	800	-0.035	-0.20
	TSCG-32M	1.10-1.13	11.0 - 11.3	676 - 844	8.5 - 10.6	955 - 1433	12 - 18	230 - 255	29 - 32	800	-0.035	-0.20
	TSCG-24L	0.95-1.02	9.5 - 10.2	541 - 716	6.8 - 9.0	636 - 955	8 - 12	175 - 191	22 - 24	800	-0.025	-0.20
	TSCG-26L	1.02-1.05	10.2 - 10.5	541 - 748	6.8 - 9.4	636 - 955	8 - 12	191 - 207	24 - 26	800	-0.035	-0.20
TSCG-28L	1.03-1.08	10.3 - 10.8	541 - 764	6.8 - 9.6	636 - 955	8 - 12	207 - 220	26 - 28	800	-0.035	-0.20	
TSCG-30L	1.08-1.15	10.8 - 11.5	541 - 796	6.8 - 10.0	636 - 955	8 - 12	220 - 240	28 - 30	800	-0.035	-0.20	
TSCG-32L	1.10-1.15	11.0 - 11.5	541 - 812	6.8 - 10.2	636 - 955	8 - 12	230 - 255	29 - 32	800	-0.035	-0.20	

