

Magnetic Characteristics

SmCo₅

Material	Grade	Br		Hcb		Hcj		(BH)max		Tc	Density	Tw	α _{Br}	α _{Hcj}	
		kGs	T	kOe	kA/m	kOe	kA/m	MGOe	kJ/m ³	°C	g/cm ³	°C	%/°C	%/°C	
SmCo ₅	16	8.1-8.5	0.81-0.85	7.8-8.3	620-660	15-23	1194-1830	14-16	110-127	750	8.3	250	-0.050	-0.300	
	18	8.5-9.0	0.85-0.90	8.3-8.8	660-700	15-23	1194-1830	16-18	127-143	750	8.3	250	-0.050	-0.300	
	(SmPr)Co ₅	20	9.0-9.4	0.90-0.94	8.5-9.1	680-725	15-23	1194-1830	19-21	150-167	750	8.3	250	-0.050	-0.300
		22	9.2-9.6	0.92-0.96	8.9-9.4	710-750	15-23	1194-1830	20-22	160-175	750	8.3	250	-0.050	-0.300
		24	9.6-10.0	0.96-1.00	9.2-9.7	730-770	15-23	1194-1830	22-24	175-190	750	8.3	250	-0.050	-0.300
SmCo ₅	20S	9.0-9.4	0.90-0.94	8.5-9.1	680-725	18-23	1433-1830	18-20	143-160	750	8.3	250	-0.045	-0.280	
	22S	9.2-9.6	0.92-0.96	8.9-9.4	710-750	18-23	1433-1830	20-22	160-175	750	8.3	250	-0.045	-0.280	
(SmGd)Co ₅	LTC10	5.9-6.3	0.59-0.63	5.8-6.2	460-493	18-23	1433-1830	8.5-10	68-80	700	8.3	250	Temp Range	α _{Br}	
Low Temp. Coefficient													20-100°C	-0.004	
													100-200°C	-0.021	
													200-300°C	-0.042	

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		kGs	T	kOe	kA/m	kOe	kA/m	MGOe	kJ/m ³	°C	g/cm ³	°C	%/°C	%/°C
Sm ₂ Co ₁₇	24H	9.5-10.2	0.95-1.02	8.7-9.4	700-750	25	1990	22-24	175-191	800	8.4	350	-0.030	-0.200
	26H	10.2-10.5	1.02-1.05	9.4-9.8	750-780	25	1990	24-26	191-207	800	8.4	350	-0.030	-0.200
	28H	10.3-10.8	1.03-1.08	9.5-10.0	756-796	25	1990	26-28	207-220	800	8.4	350	-0.030	-0.200
	30H	10.8-11.0	1.08-1.10	9.9-10.5	788-835	25	1990	28-30	220-240	800	8.4	350	-0.030	-0.200
	Sm ₂	24	9.5-10.2	0.95-1.02	8.7-9.4	700-750	18	1433	22-24	175-191	800	8.4	300	-0.030
(CoFeCuZr) ₁₇	26	10.2-10.5	1.02-1.05	9.4-9.8	750-780	18	1433	24-26	191-207	800	8.4	300	-0.030	-0.200
	28	10.3-10.8	1.03-1.08	9.5-10.0	756-796	18	1433	26-28	207-220	800	8.4	300	-0.030	-0.200
	30	10.8-11.0	1.08-1.10	9.9-10.5	788-835	18	1433	28-30	220-240	800	8.4	300	-0.030	-0.200
	26M	10.2-10.5	1.02-1.05	9.4-9.8	750-780	12-16	955-1273	24-26	191-207	800	8.4	300	-0.030	-0.200
	28M	10.3-10.8	1.03-1.08	9.5-10.0	756-796	12-16	955-1273	26-28	207-220	800	8.4	300	-0.030	-0.200
	30M	10.8-11.0	1.08-1.10	9.9-10.5	788-835	12-16	966-1273	28-30	220-240	800	8.4	300	-0.030	-0.200
	28L	10.2-10.8	1.02-1.08	5.2-9.0	413-716	5.5-10	438-796	26-28	207-220	800	8.4	250	-0.030	-0.200
	30L	10.8-11.5	1.08-1.15	5.2-9.0	413-716	5.5-10	438-796	28-30	220-240	800	8.4	250	-0.030	-0.200
(SmEr)Co ₂	LTC-22	9.4-9.8	0.94-0.98	8.4-9.0	668-715	15-20	1194-1591	21-23	167-183	840	8.4	300	Temp Range	α _{Br}
Low Temp. Coefficient	(CoTm) ₁₇												-50-25°C	+0.005
													20-100°C	+0.012
													100-200°C	+0.006
													200-300°C	-0.025

