

Typical Magnetic Properties for Sintered SmCo Magnets

Type	Grade	Remanence		Coercivity				Max Energy Product		Temperature Coefficient		Max Working Temperature
		B_r		H_{cB}		H_{cJ}		$(BH)_{max}$		α (Br)	β (HcJ)	T_w Max
		T	kGs	kA/m	kOe	kA/m	kOe	kJ/m^3	MGOe	%/°C	%/°C	°C
Sm ₁ Co ₅	SmCo-20	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≥1830	≥23	150-167	19-21	-0.045	-0.28	250
	SmCo-22	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≥1830	≥23	167-183	21-23	-0.045	-0.28	250
	SmCo-24	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≥1830	≥23	183-199	23-25	-0.045	-0.28	250
Sm ₂ Co ₁₇	SmCo-30L	1.08-1.15	10.8-11.5	541-796	6.8-10.0	636-955	8-12	220-240	28-30	-0.035	-0.20	250
	SmCo-32L	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	230-255	29-32	-0.035	-0.20	250
	SmCo-30M	1.08-1.1	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	220-240	28-30	-0.035	-0.20	300
	SmCo-32M	1.10-1.13	11.0-11.3	676-852	8.5-10.7	955-1433	12-18	230-255	29-32	-0.035	-0.20	300
	SmCo-28	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1433	≥18	207-220	26-28	-0.035	-0.20	300
	SmCo-30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	220-240	28-30	-0.035	-0.20	300
	SmCo-32	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1433	≥18	230-255	29-32	-0.035	-0.20	300
	SmCo-28H	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1990	≥25	207-220	26-28	-0.035	-0.20	350
	SmCo-30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	220-240	28-30	-0.035	-0.20	350
	SmCo-32H	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1990	≥25	230-255	29-32	-0.035	-0.20	350
	SmCo-33H	1.13-1.15	11.3-11.5	830-880	10.4-11	≥1990	≥25	246-262	31-32	-0.039	-0.22	350
	SmCo-35H	1.16-1.20	11.6-12.0	852-899	10.7-11.3	≥1990	≥25	255-271	32-34	-0.039	-0.25	300