

Typical Magnetic Properties of Sintered SmCo Magnets

Item	Grade	Remanence		Coercivity				Max Energy Product		Max Working Temperature
		B_r		H_{cb}		H_{cj}		$(BH)_{max}$		T_w Max
		T	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	° C
SmCo ₅	SmCo ₅ -20	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≥1830	≥23	151-167	19-21	250
	SmCo ₅ -22	0.92-0.96	9.2-9.6	708-756	8.9-9.5	≥1830	≥23	159-175	20-22	250
	SmCo ₅ -24	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≥1830	≥23	175-191	22-24	250
Sm ₂ Co ₁₇	Sm ₂ Co ₁₇ -30L	1.08-1.10	10.8-11.0	541-796	6.8-10.0	636-955	8-12	223-239	28-30	250
	Sm ₂ Co ₁₇ -32L	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	231-255	29-32	250
	Sm ₂ Co ₁₇ -30M	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	223-239	28-30	300
	Sm ₂ Co ₁₇ -32M	1.10-1.15	11.0-11.5	676-852	8.5-10.7	955-1433	12-18	231-255	29-32	300
	Sm ₂ Co ₁₇ -28	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1433	≥18	207-223	26-28	300
	Sm ₂ Co ₁₇ -30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	223-239	28-30	300
	Sm ₂ Co ₁₇ -32	1.10-1.15	11.0-11.5	812-860	10.2-10.8	≥1433	≥18	231-255	29-32	300
	Sm ₂ Co ₁₇ -28H	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1990	≥25	207-223	26-28	350
	Sm ₂ Co ₁₇ -30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	223-239	28-30	350
	Sm ₂ Co ₁₇ -32H	1.10-1.15	11.0-11.5	812-860	10.2-10.8	≥1990	≥25	231-255	29-32	350
	Sm ₂ Co ₁₇ -33H	1.14-1.17	11.4-11.7	827-875	10.4-11.0	≥1990	≥25	247-262	31-33	350
	Sm ₂ Co ₁₇ -35	1.17-1.21	11.7-12.1	860-915	10.8-11.5	≥2069	≥26	255-279	32-35	350