

Magnetic Properties Of Sintered Samarium Cobalt Magnet

Grade	Remanence (Br)		Coercive Force (Hcb)		Intrinsic Coercivity (Hcj)		Maximum Energy Product (BH) _{max}		Max Working Temp. (Tw)	Remanence Temp Coefficient α(Br)	Intrinsic Coercivity Temp Coefficient α(Hcj)	
	T	KGS	KA/m	kOe	KA/m	kOe	kJ/m ³	MGOe	°C	%/°C	%/°C	
SmCo ₅	YX16	0.81-0.85	8.1-8.5	610-660	7.8-8.3	1194-1830	15-23	111-127	14-16	250	-0.05	-0.3
	YX18	0.85-0.90	8.5-9.0	650-700	8.3-8.8	1194-1830	15-23	127-143	16-18	250	-0.05	-0.3
	YX20	0.90-0.94	9.0-9.4	680-725	8.5-9.1	1194-1830	15-23	143-159	18-20	250	-0.05	-0.3
	YX22	0.94-0.96	9.4-9.6	710-750	8.9-9.4	1194-1830	15-23	159-175	20-22	250	-0.05	-0.3
	YX24	0.96-1.00	9.6-10.0	720-770	9.2-9.7	1194-1830	15-23	175-190	22-24	250	-0.05	-0.3
	YX16S	0.79-0.84	7.9-8.4	612-660	7.7-8.3	≥1830	≥23	118-135	15-17	250	-0.035	-0.28
	YX18S	0.84-0.90	8.4-9.0	644-692	8.1-8.7	≥1830	≥23	135-151	17-19	250	-0.04	-0.28
	YX20S	0.90-0.94	9.0-9.4	684-732	8.6-9.2	≥1830	≥23	151-167	19-21	250	-0.045	-0.28
	YX22S	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≥1830	≥23	167-183	21-23	250	-0.045	-0.28
YX24S	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≥1830	≥23	183-199	23-25	250	-0.045	-0.28	
Sm ₂ Co ₁₇	YXG22H	0.93-0.97	9.3-9.7	676-740	8.5-9.3	≥1990	≥25	160-175	20-22	300	-0.02	-0.2
	YXG24H	0.95-1.02	9.5-10.2	700-750	8.7-9.4	≥1990	≥25	175-191	22-24	350	-0.025	-0.2
	YXG26H	1.02-1.05	10.2-10.5	750-780	9.4-9.8	≥1990	≥25	191-207	24-26	350	-0.03	-0.2
	YXG28H	1.05-1.08	10.5-10.8	756-796	9.5-10	≥1990	≥25	207-220	26-28	350	-0.035	-0.2
	YXG30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	220-240	28-30	350	-0.035	-0.2
	YXG32H	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1990	≥25	230-255	29-32	350	-0.035	-0.2
	YXG22	0.93-0.97	9.3-9.7	676-740	8.5-9.3	≥1443	≥18	160-175	20-22	300	-0.02	-0.2
	YXG24	0.95-1.02	9.5-1.02	692-764	8.7-9.6	≥1443	≥18	175-191	22-24	300	-0.025	-0.2
	YXG26	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≥1443	≥18	191-207	24-26	300	-0.03	-0.2
	YXG28	1.05-1.08	10.5-10.8	756-812	9.5-10.2	≥1443	≥18	207-220	26-28	300	-0.035	-0.2
	YXG30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1443	≥18	220-240	28-30	300	-0.035	-0.2
	YXG32	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1443	≥18	230-255	29-32	300	-0.035	-0.2
	YXG26M	1.02-1.05	10.2-10.5	676-780	8.5-9.8	955-1433	12-18	191-207	24-26	300	-0.035	-0.2
	YXG28M	1.05-1.08	10.5-10.8	676-796	8.5-10.0	955-1433	12-18	207-220	26-28	300	-0.035	-0.2
	YXG30M	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	220-240	28-30	300	-0.035	-0.2
	YXG28L	1.05-1.08	10.5-10.8	541-764	6.8-9.6	636-955	8-12	207-220	26-28	250	-0.035	-0.2
	YXG30L	1.08-1.15	10.8-11.5	541-796	6.8-10.0	636-955	8-12	220-240	28-30	250	-0.035	-0.2
YXG32L	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	230-255	29-32	250	-0.035	-0.2	