

Samarium Cobalt Magnet

Magnetic Properties

Grade	Remanence (Br)		Coercivity (Hcb)		Intrinsic Coercivity (Hcj)		Max Energy Product (BH)max		Curie Temperature (TC)	Max Work Temp (TW)	Temperature Coefficient of Br (Br)		Temperature Coefficient of Hcj (Hcj)	
	T	kGS	kA/m	KOe	KA/m	KOe	KJ/m3	MGOe	°C	°C	%°C		%°C	
YX-16s	0.79-0.84	7.9-8.4	620-660	7.8-8.3	≥1830	≥23	118-135	15-17	750	250	-0.035		-0.28	
YX-18s	0.84-0.89	8.4-8.9	660-700	8.3-8.8	≥1830	≥23	135-151	17-19	750	250	-0.040		-0.28	
YX-20s	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≥1830	≥23	150-167	19-21	750	250	-0.045		-0.28	
YX-22s	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≥1830	≥23	167-183	21-23	750	250	-0.045		-0.28	
YX-24s	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≥1830	≥23	183-199	23-25	750	250	-0.045		-0.28	
LTc(YX-10)	0.62-0.66	6.2-6.6	485-517	6.1-6.5	≥1830	≥23	75-88	9.5-11	750	300	Temp Range	Br Temp Coefficient%°C		
											20-100°C		+0.0156%°C	
											100-200°C		+0.0087%°C	
											200-300°C		+0.0007%°C	
YX-12	0.70-0.74	7.0-7.4	358-390	4.5-4.9	358-478	4.5-6	80-103	10-13	450	200				
YXG-24H	0.95-1.02	9.5-10.2	692-764	8.7-9.6	≥1990	≥25	175-191	22-24	800	350	-0.025		-0.20	
YXG-26H	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≥1990	≥25	191-207	24-26	800	350	-0.030		-0.20	
YXG-28H	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1990	≥25	207-220	26-28	800	350	-0.035		-0.20	
YXG-30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	220-240	28-30	800	350	-0.035		-0.20	
YXG-32H	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1990	≥25	230-255	29-32	800	350	-0.035		-0.20	

YXG-22	0.93-0.97	9.3-9.7	676-740	8.5-9.3	≥1433	≥18	160-183	20-23	800	300	-0.020	-0.20
YXG-24	0.95-1.02	9.5-10.2	692-764	8.7-9.6	≥1433	≥18	175-191	22-24	800	300	-0.025	-0.20
YXG-26	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≥1433	≥18	191-207	24-26	800	300	-0.030	-0.20
YXG-28	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1433	≥18	207-220	26-28	800	300	-0.035	-0.20
YXG-30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	220-240	28-30	800	300	-0.035	-0.20
YXG-32	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1433	≥18	230-255	29-32	800	300	-0.035	-0.20
YXG-26M	1.02-1.05	10.2-10.5	676-780	8.5-9.8	955-1433	12-18	191-207	24-26	800	300	-0.035	-0.20
YXG-28M	1.03-1.08	10.3-10.8	676-796	8.5-10.0	955-1433	12-18	207-220	26-28	800	300	-0.035	-0.20
YXG-30M	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	220-240	28-30	800	300	-0.035	-0.20
YXG-32M	1.10-1.13	11.0-11.3	676-852	8.5-10.7	955-1433	12-18	230-255	29-32	800	300	-0.035	-0.20
YXG-24L	0.95-1.02	9.5-10.2	541-716	6.8-9.0	636-955	8-12	175-191	22-24	800	250	-0.025	-0.20
YXG-26L	1.02-1.05	10.2-10.5	541-748	6.8-9.4	636-955	8-12	191-207	24-26	800	250	-0.035	-0.20
YXG-28L	1.03-1.08	10.3-10.8	541-764	6.8-9.6	636-955	8-12	207-220	26-28	800	250	-0.035	-0.20
YXG-30L	1.08-1.15	10.8-11.5	541-796	6.8-10.0	636-955	8-12	220-240	28-30	800	250	-0.035	-0.20
YXG-32L	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	230-255	29-32	800	250	-0.035	-0.20
LTC(YXG-22)	0.94-0.98	9.4-9.8	668-716	8.4-9.0	≥1433	≥18	167-183	21-23	840	300	Temp Range	Br Temp Coefficient%°C
											-50-25°C	+ 0.005%°C
											20-100°C	-0.008%°C
											100-200°C	-0.008%°C
											200-300°C	-0.011%°C