

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	YX-16s	7.9-8.4	0.79-0.84	7.8-8.3	620-660	≥23	≥1830	15-18	118-135	750	8.3	250	-0.035	-0.28
	YX-18s	8.4-8.9	0.84-0.89	8.3-8.8	660-700	≥23	≥1830	17-19	135-151	750	8.3	250	-0.040	-0.28
	YX-20s	8.9-9.3	0.89-0.93	8.6-9.2	684-732	≥23	≥1830	19-21	150-167	750	8.3	250	-0.045	-0.28
	YX-22s	9.2-9.6	0.92-0.96	8.9-9.5	710-756	≥23	≥1830	21-23	167-183	750	8.3	250	-0.045	-0.28
	YX-24s	9.6-10.0	0.96-1.00	9.3-9.9	740-788	≥23	≥1830	23-25	183-199	750	8.3	250	-0.045	-0.28
Ce(CoFeCu)	YX-12	7.0-7.4	0.70-0.74	4.5-4.9	358-390	4.5-6	358-478	10-13	80-103	450	8.3	200		
(SmGd)Co ₅ Low Temp. Coefficient	LTC (YX-10)	6.2-6.6	0.62-0.66	6.1-6.5	485-517	≥23	≥1830	9.5-11	75-88	750	8.3	300	Temp Range	α_{Br}
													20-100°C	+0.0156
													100-200°C	+0.0087
													200-300°C	+0.0007

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Material	Grade	Br		Hcb		Hcj		(BH)max		Tc	Density	Max. Tw	α_{Br}	α_{Hcj}
		kGs	T	kOe	kA/m	kOe	kA/m	MGOe	kJ/m ³	°C	g/cm ³	°C	%/°C	%/°C
Sm ₂ (CoFeCuZr) ₁₇	YXG-24H	9.5-10.2	0.95-1.02	8.7-9.6	692-764	≥25	≥1990	22-24	175-191	800	8.4	350	-0.025	-0.200
	YXG-26H	10.2-10.5	1.02-1.05	9.4-10.0	748-796	≥25	≥1990	24-26	191-207	800	8.4	350	-0.030	-0.200
	YXG-28H	10.3-10.8	1.03-1.08	9.5-10.2	756-812	≥25	≥1990	26-28	207-220	800	8.4	350	-0.035	-0.200
	YXG-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	-0.035	-0.200
	YXG-32H	11.0-11.3	1.10-1.13	10.2-10.8	812-860	≥25	≥1990	29-32	230-255	800	8.4	350	-0.035	-0.200
	YXG-22	9.3-9.7	0.93-0.97	8.5-9.3	676-740	≥18	≥1433	20-23	160-183	800	8.4	300	-0.020	-0.200
	YXG-24	9.5-10.2	0.95-1.02	8.7-9.6	692-764	≥18	≥1433	22-24	175-191	800	8.4	300	-0.025	-0.200
	YXG-26	10.2-10.5	1.02-1.05	9.4-10.0	748-796	≥18	≥1433	24-26	191-207	800	8.4	300	-0.030	-0.200
	YXG-28	10.3-10.8	1.03-1.08	9.5-10.2	756-812	≥18	≥1433	26-28	207-220	800	8.4	300	-0.035	-0.200
	YXG-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	-0.035	-0.200
	YXG-32	11.0-11.3	1.10-1.13	10.2-10.8	812-860	≥18	≥1433	29-32	230-255	800	8.4	300	-0.035	-0.200
	YXG-26M	10.2-10.5	1.02-1.05	8.5-9.8	676-780	12-18	955-1433	24-26	191-207	800	8.4	300	-0.035	-0.200
	YXG-28M	10.3-10.8	1.03-1.08	8.5-10.0	676-796	12-18	955-1433	26-28	207-220	800	8.4	300	-0.035	-0.200
	YXG-30M	10.8-11.0	1.08-1.10	8.5-10.5	676-835	12-18	955-1433	28-30	220-240	800	8.4	300	-0.035	-0.200
	YXG-32M	11.0-11.3	1.10-1.13	8.5-10.7	676-852	12-18	955-1433	29-32	230-255	800	8.4	300	-0.035	-0.200
	YXG-24L	9.5-10.2	0.95-1.02	6.8-9.0	541-716	8-12	636-955	22-24	175-191	800	8.4	250	-0.025	-0.200
	YXG-26L	10.2-10.5	1.02-1.05	6.8-9.4	541-748	8-12	636-955	24-26	191-207	800	8.4	250	-0.035	-0.200
YXG-28L	10.3-10.8	1.03-1.08	6.8-9.6	541-764	8-12	636-955	26-28	207-220	800	8.4	250	-0.035	-0.200	
YXG-30L	10.8-11.5	1.08-1.15	6.8-10.0	541-796	8-12	636-955	28-30	220-240	800	8.4	250	-0.035	-0.200	
YXG-32L	11.0-11.5	1.10-1.15	6.8-10.2	541-812	8-12	636-955	29-32	230-255	800	8.4	250	-0.035	-0.200	
(SmEr) ₂ (CoTm) ₁₇ Low Temp. Coefficient	LTC (YXG-22)	9.4-9.8	0.94-0.98	8.4-9.0	668-716	≥18	≥1433	21-23	167-183	840	8.4	300	Temp Range	α_{Br}
													-50-25°C	+0.005
													20-100°C	+0.008
													100-200°C	+0.008
													200-300°C	-0.011