

Sintered SmCo magnet Physical Properties

Material	Grade	Br		Hcb		Hcj		(BH)max		TC	TW Max Operating	Temperature Coefficient of Br	Temperature Coefficient of iHc			
		Remanence Br		Coercivity Force		Intrinsic Coercivity		Maximun Energy		Curie Temperature	Temperature	% °C	% °C			
		T	KGS	KA/m	KOe	KA/m	KOe	KJ/m ³	MGoe	°C	°C	% °C	% °C			
SmCo ₅ (Smpr)Co ₅	YX-16	0.81-0.85	8.1-8.5	620-660	7.8-8.3	1194-1830	15-23	110-127	14-16	750	250	-0.050	-0.30			
	YX-18	0.85-0.9	8.5-9.0	660-700	8.3-8.8	1194-1830	15-23	127-143	16-18	750	250	-0.050	-0.30			
	YX-20	0.9-0.94	9.0-9.4	680-725	8.5-9.1	1194-1830	15-23	150-167	19-21	750	250	-0.050	-0.30			
	YX-22	0.92-0.96	9.2-9.6	710-750	8.9-9.4	1194-1830	15-23	160-175	20-22	750	250	-0.050	-0.30			
	YX-24	0.96-1.0	9.6-10.0	730-770	9.2-9.7	1194-1830	15-23	175-190	22-24	750	250	-0.050	-0.30			
SmCo ₅	YX-18s	0.85-0.9	8.5-9.0	660-700	8.3-8.8	1433-2000	18-25	135-151	17-19	750	250	-0.045	-0.28			
	YX-20s	0.9-0.94	9.0-9.4	680-725	8.5-9.1	1433-2000	18-25	143-160	18-20	750	250	-0.045	-0.28			
	YX-22s	0.92-0.96	9.2-9.6	710-750	8.9-9.4	1433-2000	18-25	160-175	20-22	750	250	-0.045	-0.28			
Low temperature coefficient SmCo ₅ (SmGd)Co ₅	LTC(YX-10)	0.59-0.63	5.9-6.3	460-493	5.8-6.2	1430-1830	18-23	68-80	8.5-10	700	250	Temperature 20-100°C	Temp. Coefficient of Br -0.004% °C			
														100-200°C	-0.021% °C	
															200-300°C	-0.042% °C
Low temperature coefficient Sm ₂ Co ₁₇ (SmEr) ₂ (CoTM) ₁₇	LTC(YXG-22)	0.94-0.98	9.4-9.8	668-715	8.4-9.0	1194-1591	15-20	167-183	21-23	840	300	Temperature -50-25°C	Temp. Coefficient of Br + 0.005% °C			
															20-100°C	+ 0.012% °C
															100-200°C	+ 0.006% °C
															200-300°C	-0.025% °C
cc(coFecu) ₅	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					

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		Remanence Br		Coercivity Force		Intrinsic Coercivity		Maximun Energy		Curie Temperature	Temperature		
Sm ₂ Co ₁₇ Sm ₂ (CoFecuzr) ₁₇	YXG-24H	0.95-1.02	9.5-10.2	700-750	8.7-9.4	≥1990	≥25	175-191	22-24	800	350	-0.025	-0.20
	YXG-26H	1.02-1.05	10.2-10.5	750-780	9.4-9.8	≥1990	≥25	191-207	24-26	800	350	-0.030	-0.20
	YXG-28H	1.03-1.08	10.3-10.8	756-796	9.5-10	≥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-33H	1.12-1.16	11.2-11.6	845-890	10.6-11.2	≥1990	≥25	240-260	30-33	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	700-750	8.7-9.4	≥1433	≥18	175-191	22-24	800	300	-0.025	-0.20
	YXG-26	1.02-1.05	10.2-10.5	750-780	9.4-9.8	≥1433	≥18	191-207	24-26	800	300	-0.030	-0.20
	YXG-28	1.03-1.08	10.3-10.8	756-796	9.5-10	≥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-33	1.12-1.16	11.2-11.6	845-890	10.6-11.2	≥1433	≥18	240-260	30-33	800	300	-0.035	-0.20
	YXG-26M	1.02-1.05	10.2-10.5	750-780	9.4-9.8	955-1273	12-16	191-207	24-26	800	300	-0.035	-0.20
	YXG-28M	1.03-1.08	10.3-10.8	756-796	9.5-10.0	955-1273	12-16	207-220	26-28	800	300	-0.035	-0.20
	YXG-30M	1.08-1.10	10.8-11.0	788-835	9.9-10.5	955-1273	12-16	220-240	28-30	800	300	-0.035	-0.20
	YXG-32M	1.08-1.10	10.8-11.0	788-835	9.9-10.5	955-1273	12-16	230-255	29-32	800	300	-0.035	-0.20
	YXG-24L	0.95-1.02	9.5-10.2	413-716	5.2-9.0	438-796	5.5-10.0	175-191	22-24	800	250	-0.025	-0.20
	YXG-26L	1.02-1.05	10.2-10.5	413-716	5.2-9.0	438-796	5.5-10.0	191-207	24-26	800	250	-0.035	-0.20
	YXG-28L	1.02-1.08	10.2-10.8	413-716	5.2-9.0	438-796	5.5-10.0	207-220	26-28	800	250	-0.035	-0.20
YXG-30L	1.08-1.15	10.8-11.5	413-716	5.2-9.0	438-796	5.5-10.0	220-240	28-30	800	250	-0.035	-0.20	
YXG-32L	1.10-1.13	11.0-11.3	413-716	5.2-9.0	438-796	5.5-10.0	230-255	29-32	800	250	-0.035	-0.20	