

Sintered SmCo Magnet Physical Properties

鈔鈷磁性能標準

Material 材料	Grades 牌號	Br		Hcb		Hcj		(BH)max		TC	TW	Temp. Coefficient of Br 剩磁溫度係數	Temp. Coefficient of iHc Hcj內稟矯頑力溫度 係數	
		Remanence Br 剩磁		Coercivity Force 矯頑力		Intrinsic Coercivity 內稟矯頑力		Maximum Energy 最大磁能值		Curie Temp. 居里溫度	MAX Operating Temp. 最高工作溫度			
		T	KGS	KA/m	KOe	KA/m	KOe	KJ/m ³	MGOe	℃	℃	% ℃	% ℃	
SmCo5 (Smpr)co5 鈔鈷1:5	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	0.85-0.90	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	0.90-0.94	9.0-9.4	676-725	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	710-748	8.9-9.4	1194-1830	15-23	160-175	20-22	750	250	-0.050	-0.30	
	YX-24	0.96-1.00	9.6-10.0	730-770	9.2-9.7	1194-1830	15-23	175-190	22-24	750	250	-0.050	-0.30	
SmCo5 鈔鈷1:5	YX-16s	0.79-0.84	7.9-8.4	612-652	7.7-8.2	≥ 1830	≥ 23	118-135	15-17	750	250	-0.035	-0.30	
	YX-18s	0.84-0.89	8.4-8.9	644-684	8.1-8.6	≥ 1830	≥ 23	135-151	17-19	750	250	-0.040	-0.30	
	YX-20s	0.89-0.93	8.9-9.3	684-724	8.6-9.1	≥ 1830	≥ 23	150-167	19-21	750	250	-0.045	-0.30	
	YX-22s	0.92-0.96	9.2-9.6	710-748	8.9-9.4	≥ 1830	≥ 23	167-183	21-23	750	250	-0.045	-0.30	
	YX-24s	0.96-1.00	9.6-10.0	740-780	9.3-9.8	≥ 1830	≥ 23	183-199	23-25	750	250	-0.045	-0.30	
Low temp. Coefficient SmCo5 (SmGd)Co5 低溫度係數 鈔鈷1:5 (SmGd)Co5	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	Temperature 溫度範圍	Temp. Coefficient of Br Br溫度係數% ℃	
												20-100℃	+0.0156% ℃	
													100-200℃	+0.0087% ℃
													200-300℃	+0.0007% ℃
ce(coFecu)5 鈔鈷銅鐵 ce(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			
Sm2Co17 Sm2(CoFecuzr)17 鈔鈷2:17 Sm2(CoFecuzr)17	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	812-844	10.2-10.6	≥ 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	812-851	10.2-10.7	≥ 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	676-844	8.5-10.6	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		
Low temp. Coefficient Sm2Co17 (SmEr)2(CoTM)17 低溫度係數 鈔鈷2:17 (SmEr)2 (CoTM)17	LTc(YXG-22)	0.94-0.98	9.4-9.8	668-716	8.4-9.0	1194-1591	15-20	167-183	21-23	840	300	Temperature 溫度範圍	Temp. Coefficient of Br Br溫度係數% ℃	
												-15-25℃	+0.005% ℃	
													20-100℃	+0.008% ℃
													100-200℃	+0.008% ℃
													200-300℃	+0.011% ℃