



燒結鈔鈷磁鐵特性※Physical Properties of Sintered SmCo Magnets

材料	牌號	剩磁		矯頑力		內稟矯頑力		最大磁能積		居里溫度	最高工作溫度	(Br) 剩磁溫度係數	(Hcj) 內稟矯頑力溫度係數
Materials	Grades	Remanence		Coercive Force		Intrinsic Coercivity		Maximum Energy Product		Curie Temp	Maximum Working	Temp Coefficient of Br	Temp. Coefficient of Hcj
		Br		Hcb		Hcj		(BH)max	TC	TW			
		T	KGS	KA/m	Koe	KA/m	Koe	Kj/m	Mgoe	°C	°C	%°C	%°C
鈔鈷1:5 (SmPr)Co ₅ SmCo 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	-0.05	-0.3
	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	-0.05	-0.3
	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	-0.05	-0.3
	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	-0.05	-0.3
	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	-0.05	-0.3
鈔鈷1:5 SmCo ₅	YX-20s	0.9-0.94	9.0-9.4	680-725	8.5-9.1	1433-1830	18-23	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	1433-1830	18-23	160-175	20-22	750	250	-0.045	-0.28
低溫度係數	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	溫度範圍 Temp. Range	Br溫度係數 %°C Temp. Coefficient of Br
鈔鈷1:5 (SmPr)Co ₅ SmCo ₅												20-100°C	-0.004
												100-200°C	-0.021
												200-300°C	-0.042
鈔鈷銅鐵 Ce(Co Fe Cu) 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		
鈔鈷2:17 Sm ₂ (CoFeCuZr) ₁₇ Sm ₂ Co 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	-0.03	-0.2
	YXG-26H	1.02-1.05	10.2-10.5	750-780	9.4-9.8	≥1990	≥25	191-207	24-26	800	350	-0.03	-0.2
	YXG-28H	1.03-1.08	10.3-10.8	756-796	9.5-10	≥1990	≥25	207-220	26-28	800	350	-0.03	-0.2
	YXG-30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	220-240	28-30	800	350	-0.03	-0.2
	YXG-24	0.95-1.02	9.5-10.2	700-750	8.7-9.4	≥1433	≥18	175-191	22-24	800	300	-0.03	-0.2
	YXG-26	1.02-1.05	10.2-10.5	750-780	9.4-9.8	≥1433	≥18	191-207	24-26	800	300	-0.03	-0.2
	YXG-28	1.03-1.08	10.3-10.8	756-796	9.5-10	≥1433	≥18	207-220	26-28	800	300	-0.03	-0.2
	YXG-30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	220-240	28-30	800	300	-0.03	-0.2
	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	-0.03	-0.2
	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	-0.03	-0.2
	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	-0.03	-0.2
	YXG-28L	1.02-1.08	10.2-10.8	413-716	5.2-9.0	438-796	5.5-10	207-220	26-28	800	250	-0.03	-0.2
	YXG-30L	1.08-1.15	10.8-11.5	413-716	5.2-9.0	438-796	5.5-10	220-240	28-30	800	250	-0.03	-0.2
低溫度係數	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	溫度範圍 Temp. Range	Br溫度係數 %°C Temp. Coefficient of Br
鈔鈷2:17(SmEr) ₂ (CoTm) ₁₇ Sm ₂ Co ₁₇ of Low Temp. Coefficient												-50-25°C	+0.005
												20-100°C	+0.012
												100-200°C	+0.006
												200-300°C	-0.025