



Sintered SmCo



Grade Characteristics

Grade	Type of Material
SmCo5 (1-5)	Sintered SmCo
Sm2Co17 (2:17)	

Magnetic Characteristics

Grade	Br	Br	Hcb	Hcb	Hcj	Hcj	Bhmax	Bhmax
	mT	KGs	Gauss	KA/m	KOe	Oersteds	KOe	KA/m
YX16	810-850	8.1-8.5	620-660	7.8-8.3	15-23	1194-1830	110-127	14-16



Grade	Br	Br	Hcb	Hcb	Hcj	Hcj	Bhmax	Bhmax
	mT	KGs	Gauss	KA/m	KOe	Oersteds	KOe	KA/m
YX18	850-900	8.5-9.0	660-700	8.3-8.8	15-23	1194-1830	135-143	16-18
YX20	900-930	9.0-9.3	676-725	8.5-9.1	15-23	1194-1830	143-159	18-20
YX22	930-960	9.3-9.6	710-748	8.9-9.4	15-23	1194-1830	159-175	20-22
YX24	960-1020	9.6-1.02	730-780	9.2-9.7	15-23	1194-1830	175-195	22-24
YX16S	790-840	7.9-8.4	612-660	7.7-8.3	23	1830	118-135	15-17
YX18S	840-890	8.4-8.9	644-692	8.1-8.7	23	1830	135-151	17-19
YX20S	890-930	8.9-9.3	684-732	8.6-9.2	23	1830	150-167	19-21
YX22S	920-960	9.2-9.6	710-756	8.9-9.5	23	1830	167-183	21-23
YX24S	960-1000	9.6-10.0	740-788	9.3-9.9	23	1830	183-199	23-25
LTc (YX10)	620-660	6.2-6.6	485-517	6.1-6.5	23	1830	75-88	9.5-11
YX12	700-740	7.0-7.4	358-390	4.5-4.9	4.5-6	358-478	80-103	10-13
YXG20H	900-930	9.0-9.3	661-732	8.3-9.2	25	1990	143-159	18-20
YXG22H	930-960	9.3-9.6	685-740	8.6-9.3	25	1990	159-175	20-22
YXG24H	960-990	9.6-9.9	692-764	8.7-9.6	25	1990	175-191	22-24
YXG26H	1020-1050	10.2-10.5	748-796	9.4-10.0	25	1990	191-207	24-26
YXG28H	1030-1080	10.3-10.8	756-812	9.5-10.2	25	1990	207-220	26-28
YXG30H	1080-1100	10.8-11.0	788-835	9.9-10.5	25	1990	220-240	28-30
YXG32H	1100-1140	11.0-11.4	812-860	10.2-10.8	25	1990	230-255	29-32
YXG22	930-970	9.3-9.7	676-740	8.5-9.3	18	1433	160-183	20-23
YXG24	950-1020	9.5-10.2	692-764	8.7-9.6	18	1433	175-191	22-24
YXG26	1020-1050	10.2-10.5	748-796	9.4-10.0	18	1433	191-207	24-26
YXG28	1030-1080	10.3-10.8	756-812	9.5-10.2	18	1433	207-220	26-28



Grade	Br	Br	Hcb	Hcb	Hcj	Hcj	Bhmax	Bhmax
	mT	KGs	Gauss	KA/m	KOe	Oersteds	KOe	KA/m
YXG30	1080-1100	10.8-11.0	788-835	9.9-10.5	18	1433	220-240	28-30
YXG32	1100-1130	11.0-11.3	812-860	10.2-10.8	18	1433	230-255	29-32
YXG20M	900-930	9.0-9.3	637-732	8.0-9.2	12-18	955-1433	143-159	18-20
YXG22M	930-960	9.3-9.6	645-740	8.1-9.3	12-18	955-1433	159-175	20-22
YXG24M	960-1020	9.6-10.2	661-764	8.3-9.6	12-18	955-1433	175-191	22-24
YXG26M	1020-1050	10.2-10.4	676-780	8.5-9.8	12-18	955-1433	191-207	24-26
YXG30M	1080-1100	10.8-11.0	676-835	8.5-10.5	12-18	955-1433	220-240	28-30
YXG32M	1100-1130	11.0-11.3	676-852	8.5-10.7	12-18	955-1433	230-255	29-32
YXG20L	900-930	9.0-9.3	533-732	6.7-9.2	8-12	636-955	143-159	18-20
YXG22L	930-960	9.3-9.6	533-740	6.7-9.3	8-12	636-955	159-175	20-22
YXG24L	950-1020	9.5-10.2	541-716	6.8-9.0	8-12	636-955	175-191	22-24
YXG26L	1020-1050	10.2-10.5	541-748	6.8-9.4	8-12	636-955	191-207	24-26
YXG28L	1030-1080	10.3-10.8	541-764	6.8-9.6	8-12	636-955	207-220	26-28
YXG30L	1080-1150	10.8-11.5	541-796	6.8-10.0	8-12	636-955	220-240	28-30
YXG32L	1100-1150	11.0-11.5	541-812	6.8-10.2	8-12	636-955	230-255	29-32
LTC(YXG22)	940-980	9.4-9.8	668-716	8.4-9.0	18	1433	167-183	21-23
LTC(YXG24)	960-1020	9.6-10.2	700-772	8.8-9.7	25	1990	175-191	22-24

Thermal Characteristics



Grade	Max Operating Temp	Curie Temp	Rev Temp Coeff	Rev Temp Coeff
	°C	%/°C	Br (TC a(Br) %/°C)	Hcj (Tc a(Hcj) %/°C)
YX16	250	750	-0.050	-0.300
YX18	250	750	-0.050	-0.300
YX20	250	750	-0.050	-0.300
YX22	250	750	-0.050	-0.300
YX24	250	750	-0.050	-0.300
YX16S	250	750	-0.035	-0.280
YX18S	250	750	-0.040	-0.280
YX20S	250	750	-0.045	-0.280
YX22S	250	750	-0.045	-0.280
YX24S	250	750	-0.045	-0.280
LTc (YX10)	300	750	Note 1	
YX12	200	450		
YXG20H	350	800	-0.020	-0.200
YXG22H	350	800	-0.020	-0.200
YXG24H	350	800	-0.030	-0.200
YXG26H	350	800	-0.030	-0.200
YXG28H	350	800	-0.035	-0.200
YXG30H	350	800	-0.035	-0.200
YXG32H	350	800	-0.035	-0.200
YXG22	300	800	-0.020	-0.200
YXG24	300	800	-0.025	-0.200
YXG26	300	800	-0.030	-0.200



Grade	Max Operating Temp	Curie Temp	Rev Temp Coeff	Rev Temp Coeff
	°C	%/°C	Br (TC a(Br) %/°C)	Hcj (Tc a(Hcj) %/°C)
YXG28	300	800	-0.035	-0.200
YXG30	300	800	-0.035	-0.200
YXG32	300	800	-0.035	-0.200
YXG20M	300	800	-0.020	-0.200
YXG22M	300	800	-0.020	-0.200
YXG24M	300	800	-0.025	-0.200
YXG26M	300	820	-0.035	-0.200
YXG28M	300	820	-0.035	-0.200
YXG30M	300	820	-0.035	-0.200
YXG32M	300	820	-0.035	-0.200
YXG20L	250	800	-0.020	-0.200
YXG22L	250	800	-0.020	-0.200
YXG24L	250	800	-0.025	-0.200
YXG26L	250	820	-0.035	-0.200
YXG28L	250	820	-0.035	-0.200
YXG30L	250	820	-0.035	-0.200
YXG32L	250	820	-0.035	-0.200
LTC(YXG22)	300	840	Note 2	
LTC(YXG24)	350	840	Note 2	

