



You have problems or ideas
- we provide solutions



Types and properties of Sintered SMCO magnets

Our company holds ISO14001, ISO90001, IATF16949, QC080000 certificates.

Anisotropic Sintered	Max. energy product		Remanence		Coercivity		Intrinsic Coercivity		Max. operating	Curie temp.	Temperature Coefficient	Temperature Coefficient
SmCo Magnets ^①	(BH) _{max.}		Br.		H _{cb}		H _{cj}		temp. ^②	TC	BR	BH
Grade	[kJ/m ³]	[MGOe]	[T]	[kGs]	[kA/m]	[kOe]	[kA/m]	[kOe]	[°C]	[°C]	[%°C]	[%°C]
Sm2Co5												
YX-16S	118-135	15-17	0.79-0.84	7.9-8.4	612-660	7.8-8.3	1830	23	250	750	-0.045	-0.3
YX-18S	135-151	17-19	0.84-0.89	8.4-8.9	644-692	8.1-8.7	1830	23	250	750	-0.045	-0.3
YX-20S	150-167	19-21	0.89-0.93	8.9-9.3	684-732	8.6-9.2	1830	23	250	750	-0.045	-0.3
YX-22S	167-183	21-23	0.92-0.96	9.2-9.6	710-756	8.9-9.5	1830	23	250	750	-0.045	-0.3
YX-24S	183-199	23-25	0.96-1.00	9.6-10.0	740-788	9.3-9.9	1830	23	250	750	-0.045	-0.3
Low temperature coefficient SmCo5												
LTC(YX-10)	75-88	9.5-11	0.62-0.66	6.2-6.6	75-88	9.5-11	1830	23	300	750	Temperature [°C]	Temperature Coefficient BR [%°C]
											20-100	0.0156
											100-200	0.0087
											200-300	0.0007
Ce(CoFeCu)5												
YX-12	80-103	10-13	0.70-0.74	7.0-7.4	358-390	4.5-4.9	358-478	4.5-6.0	200	450		
Sm2Co17 - Sm2(CoFeCuZr)17												
YXG-24H	175-191	22-24	0.95-1.02	9.5-10.2	692-764	8.7-9.6	1990	25	350	800	-0.035	-0.2
YXG-26H	191-207	24-26	1.02-1.05	10.2-10.5	748-796	9.4-10.0	1990	25	350	800	-0.035	-0.2
YXG-28H	207-220	26-28	1.03-1.08	10.3-10.8	756-812	9.5-10.2	1990	25	350	800	-0.035	-0.2
YXG-30H	220-240	28-30	1.08-1.10	10.8-11.0	768-835	9.9-10.5	1990	25	350	800	-0.035	-0.2
YXG-32H	230-255	29-32	1.10-1.13	11.0-11.30	812-860	10.2-10.8	1990	25	350	800	-0.035	-0.2
YXG-22	160-183	20-23	0.93-0.97	8.5-9.3	676-740	8.5-9.3	1433	18	300	800	-0.035	-0.2
YXG-24	175-191	22-24	0.95-1.02	8.7-9.6	692-764	8.7-9.6	1433	18	300	800	-0.035	-0.2
YXG-26	191-207	24-26	1.02-1.05	9.4-10.0	748-796	9.4-10.0	1433	18	300	800	-0.035	-0.2
YXG-28	207-220	26-28	1.03-1.08	9.5-10.2	756-812	9.5-10.2	1433	18	300	800	-0.035	-0.2
YXG-30	220-240	28-30	1.08-1.10	9.9-10.5	788-835	9.9-10.5	1433	18	300	800	-0.035	-0.2
YXG-32	230-255	29-32	1.10-1.13	10.2-10.8	812-860	10.2-10.8	1433	18	300	800	-0.035	-0.2
YXG-26M	191-207	24-26	1.02-1.05	10.2-10.5	676-780	8.5-9.8	955-1433	12-18	300	800	-0.035	-0.2
YXG-28M	207-220	26-28	1.03-1.08	10.3-10.8	676-796	8.5-10.0	955-1433	12-18	300	800	-0.035	-0.2
YXG-30M	220-240	28-30	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	300	800	-0.035	-0.2
YXG-32M	230-255	29-32	1.10-1.13	11.0-11.30	676-852	8.5-10.7	955-1433	12-18	300	800	-0.035	-0.2
YXG-24L	175-191	22-24	0.95-1.02	9.5-10.2	541-716	6.8-9.0	636-955	8-12	250	800	-0.035	-0.2
YXG-26L	191-207	24-26	1.02-1.05	10.2-10.5	541-748	6.8-9.4	636-955	8-12	250	800	-0.035	-0.2
YXG-28L	207-220	26-28	1.03-1.08	10.3-10.8	541-764	6.8-9.6	636-955	8-12	250	800	-0.035	-0.2
YXG-30L	220-240	28-30	1.08-1.15	10.8-11.5	541-796	6.8-10.0	636-955	8-12	250	800	-0.035	-0.2
YXG-32L	230-255	29-32	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	250	800	-0.035	-0.2
Low temperature coefficient Sm2Co17 - (SmEr)2(CoTM)17												
LTC(YXG-32)	167-183	21-23	0.94-0.98	9.4-9.8	668-716	8.4-9.0	1433	18	300	840	Temperature	Temperature Coefficient BR
											-50-25	0.005
											20-100	0.008
											100-200	0.008
											200-300	0.011

① Further qualities or grade on low thermal coefficient magnets, please contact us for more details.

② The maximum operating temperature depends on the magnet's dimensions and its final applications. We recommend keeping a margin of safety in materials selection.

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PRODUCTION AND DISTRIBUTION OF PERMANENT MAGNETS AND PRECISION ASSEMBLIES

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