

# SmCo

## Samarium-Cobalt Magnete

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	Remanenz Remanence		Koerzitivfeldstärke Magnetic Coercivity				Max. Energieprodukt t Max. energy product		Temperatur-Koeffizient Temperature coefficient		Max Arbeits-Temp. Max. working temperature
	<i>Br</i>		<i>HcB</i>		<i>HcJ</i>		<i>(BH)max</i>		<i>α(Br)</i>	<i>β(HcJ)</i>	Temperature
	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m <sup>3</sup>	MGO <sub>e</sub>	%/°C	%/°C	°C
<b>Sm1Co5</b>											
<b>YX-18s</b>	0.84-0.89	8.4-8.9	644-692	8.1-8.7	≥1830	≥23	135-151	17-19	-0,040	-0,28	≥250
<b>YX-20s</b>	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≥1830	≥23	150-167	19-21	-0,045	-0,28	≥250
<b>YX-22s</b>	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≥1830	≥23	167-183	21-23	-0,045	-0,28	≥250
<b>YX-24s</b>	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≥1830	≥23	183-199	23-25	-0,045	-0,28	≥250
<b>(SmGd)2Co5</b>											
									<b>Br</b>	<b>% C</b>	
<b>LTc(YX-10)</b>	0.62-0.66	6.2-6.6	485-517	6.1-6.5	≥1830	≥23	750	9.5-11	20-100°C 100-200°C 200-300°C	+0.0156%/°C +0.0087%/°C +0.0007%/°C	300
<b>Ce(CoFeCu)5</b>											
<b>YXG12</b>	0.70-0.74	7.0-7.4	358-390	4.5-4.9	358-478	4.5-6.0	80-103	10-13	200-300°C 100-200°C 200-300°C	+0.0007%/°C +0.0087%/°C +0.0007%/°C	200
<b>Sm2Co17</b>											
<b>YXG-26L</b>	1.02-1.05	10.2-10.5	541-748	6.8-9.4	636-955	8-12	191-207	24-26	-0,035	-0,20	≥250
<b>YXG-28L</b>	1.03-1.08	10.3-10.8	541-764	6.8-9.6	636-955	8-12	207-220	26-28	-0,035	-0,20	≥250
<b>YXG-30L</b>	1.08-1.15	10.8-11.0	541-796	6.8-10.0	636-955	8-12	220-240	28-30	-0,035	-0,20	≥250
<b>YXG-32L</b>	1.10-1.15	11.0-11.3	541-812	6.8-10.2	636-955	8-12	230-255	29-32	-0,035	-0,20	≥250
<b>YXG-26M</b>	1.02-1.05	10.2-10.5	676-780	8.5-9.8	955-1433	12-18	191-207	24-26	-0,035	-0,20	300
<b>YXG-28M</b>	1.03-1.08	10.3-10.8	676-796	8.5-10.0	955-1433	12-18	207-220	26-28	-0,035	-0,20	300
<b>YXG-30M</b>	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	220-240	28-30	-0,035	-0,20	300
<b>YXG-32M</b>	1.10-1.13	11.0-11.3	676-852	8.5-10.7	955-1433	12-18	230-255	29-32	-0,035	-0,20	300
<b>YXG-26</b>	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≥1433	≥18	191-207	24-26	-0,030	-0,20	300
<b>YXG-28</b>	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1433	≥18	207-220	26-28	-0,035	-0,20	300
<b>YXG-30</b>	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	220-240	28-30	-0,035	-0,20	300

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	T	kGs	kA/m	kOe	kA/m	kOe	kJ/m <sup>3</sup>	MGO <sub>e</sub>	%/°C	%/°C	°C
<b>YXG-32</b>	1.10- 1.13	11.0- 11.3	812- 860	10.2- 10.8	≥1433	≥18	230- 255	29- 32	-0,035	-0,20	300
<b>YXG-26H</b>	1.02- 1.05	10.2- 10.5	748- 796	9.4- 10.0	≥1990	≥25	191- 207	24- 26	-0,030	-0,20	350
<b>YXG-28H</b>	1.03- 1.08	10.3- 10.8	756- 812	9.5- 10.2	≥1990	≥25	207- 220	26- 28	-0,035	-0,20	350
<b>YXG-30H</b>	1.08- 1.10	10.8- 11.0	788- 835	9.9- 10.5	≥1990	≥25	220- 240	28- 30	-0,035	-0,20	350
<b>YXG-32H</b>	1.10- 1.13	11.0- 11.3	812- 860	10.2- 10.8	≥1990	≥25	230- 255	29- 32	-0,035	-0,20	350
<b>(SmEr)2(CoTm)17</b>											
									<b>Br</b>	<b>% C</b>	
<b>LTC(YXG -22)</b>	0.94- 0.98	9.4- 9.8	668- 716	8.4- 9.0	≥1433	≥18	167- 183	21- 23	-50-25°C 20-100°C 100-200°C	+0.005%°C +0.008%°C +0.008%°C	300