

Main Magnetic Properties of Sintered SmCo Magnet

Materials	Grades	Remanence		Coercive Force				Max. Energy Product		Curie Temp.	Max. Working Temp.	Rever. Temp. Coeff.	
		Br		Hcb		Hcj		(BH)max		Tc	Tw	$\alpha$ (Br)	$\beta$ (iHc)
		T	kGs	kA/M	kOe	kA/m	kOe	kJ/m <sup>3</sup>	MGOe	°C	°C	% °C	% °C
(SmPr)Co <sub>5</sub> SmCo <sub>5</sub>	YX-16	0.80-0.86	8.0-8.6	620-740	7.8-9.3	1195-1830	15-23	112-136	14-17	750	250	-0.05	-0.30
	YX-18	0.84-0.90	8.4-9.0	640-760	8.0-9.5	1195-1830	15-23	128-152	16-19	750	250	-0.05	-0.30
	YX-20	0.88-0.94	8.8-9.4	640-760	8.0-9.5	1195-1830	15-23	144-168	18-21	750	250	-0.05	-0.30
	YX-22	0.92-0.98	9.2-9.8	660-780	8.3-9.8	1195-1830	15-23	160-184	20-23	750	250	-0.05	-0.30
	YX-24	0.96-1.02	9.6-10.2	660-780	8.3-9.8	1195-1830	15-23	176-200	22-25	750	250	-0.05	-0.30
	SmCo <sub>5</sub>	YX-20S	0.88-0.94	8.8-9.4	640-760	8.0-9.5	1435-1830	18-23	144-168	18-21	750	250	-0.045
YX-22S		0.92-0.98	9.2-9.8	660-780	8.3-9.8	1435-1830	18-23	144-168	18-21	750	250	-0.045	-0.28
(SmGd)Co <sub>5</sub>	YX-10LT	0.59-0.63	5.9-6.3	460-495	5.8-6.2	1430-1830	18-23	68-80	8.5-10	700	250	-0.015	-0.12
Sm <sub>2</sub> (CoFeCuZr) <sub>17</sub>	YXG-24H	0.96-1.02	9.6-10.2	660-800	8.3-10.0	>1990	>25	176-200	22-25	800	350	-0.03	-0.20
	YXG-26H	1.00-1.06	10.0-10.6	680-820	8.5-10.3	>1990	>25	192-216	24-27	800	350	-0.03	-0.20
	YXG-28H	1.04-1.09	10.4-10.9	680-820	8.5-10.3	>1990	>25	208-232	26-29	800	350	-0.03	-0.20
	YXG-30H	1.07-1.12	10.7-11.2	680-820	8.5-10.3	>1990	>25	224-248	28-31	800	350	-0.03	-0.20
	YXG-24	0.96-1.02	9.6-10.2	660-800	8.3-10.0	>1430	>18	176-200	22-25	800	300	-0.03	-0.20
	YXG-26	1.00-1.06	10.0-10.6	680-820	8.5-10.3	>1430	>18	192-216	24-27	800	300	-0.03	-0.20
	YXG-28	1.04-1.09	10.4-10.9	680-820	8.5-10.3	>1430	>18	208-232	26-29	800	300	-0.03	-0.20
	YXG-30	1.07-1.12	10.7-11.2	680-820	8.5-10.3	>1430	>18	224-248	28-31	800	300	-0.03	-0.20
	YXG-32	1.10-1.15	11.0-11.5	680-820	8.5-10.3	>1430	>18	240-264	30-33	800	300	-0.03	-0.20
	YXG-24M	0.96-1.02	9.6-10.2	660-800	8.3-10.0	955-1270	12-16	176-200	22-25	800	300	-0.03	-0.20
	YXG-26M	1.00-1.06	10.0-10.6	680-820	8.5-10.3	955-1270	12-16	192-216	24-27	800	300	-0.03	-0.20
	YXG-28M	1.04-1.09	10.4-10.9	680-820	8.5-10.3	955-1270	12-16	208-232	26-29	800	300	-0.03	-0.20
	YXG-30M	1.07-1.12	10.7-11.2	680-820	8.5-10.3	955-1270	12-16	224-248	28-31	800	300	-0.03	-0.20
	YXG-32M	1.10-1.15	11.0-11.5	680-820	8.5-10.3	955-1270	12-16	240-264	30-33	800	300	-0.03	-0.20
	YXG-24L	0.96-1.02	9.6-10.2	415-720	5.2-9.0	440-800	5.5-10	176-200	22-25	800	250	-0.03	-0.20
	YXL-26L	1.00-1.06	10.0-10.6	415-720	5.2-9.0	440-800	5.5-10	192-216	24-27	800	250	-0.03	-0.20
	YXG-28L	1.04-1.09	10.4-10.9	415-720	5.2-9.0	440-800	5.5-10	208-232	26-29	800	250	-0.03	-0.20
	YXG-30L	1.07-1.12	10.7-11.2	415-720	5.2-9.0	440-800	5.5-10	224-248	28-31	800	250	-0.03	-0.20
YXG-32L	1.10-1.15	11.0-11.5	415-720	5.2-9.0	440-800	5.5-10	240-264	30-33	800	250	-0.03	-0.20	
(SmEr) <sub>2</sub> (CoTm) <sub>17</sub>	YXG-22LT	0.93-0.98	9.3-9.8	670-760	8.4-9.5	>1195	>15	160-184	20-23	850	350	-0.01	-0.10
	YXG-24LT	0.96-1.02	9.6-10.2	670-760	8.4-9.5	>1195	>15	176-200	22-25	850	350	-0.01	-0.10
	YXG-26LT	1.00-1.06	10.0-10.6	680-810	8.5-10.2	>1430	>18	192-216	24-27	850	350	-0.02	-0.15

Remark: All the data listed in the table are measured as per standard IEC60404-5:1995 at open circuit