

SmCo Magnet Magnetic Properties

Material	Grade	Energy Product (BH)max		Residual Induction Br(min)		Coercive Force Hcb(min)		Intrinsic Coercive Force Hcj(min)		Density g/cm ³	Rev.Temp Coeff α(Br) %/°C	Curie Temp °C	Max Working Temp °C
		KJ/m ³	MGsOe	T	KGs	KA/m	KOe	KA/m	KOe				
SmCo5 Sm(Pr)Co	XG14	103-127	13-16	0.73-0.82	7.3-8.2	588-670	7.4-8.8	≥1194	≥15.0	8.3	-0.04	≥740	250
	XG14H	103-127	13-16	0.73-0.82	7.3-8.2	588-670	7.4-8.8	≥1592	≥20.0				
	XG16	120-143	15-18	0.77-0.86	7.7-8.6	613-716	7.7-9.0	≥1194	≥15.0				
	XG16H	120-143	15-18	0.77-0.86	7.7-8.6	613-716	7.7-9.0	≥1592	≥20.0				
	XG18	135-159	17-20	0.81-0.92	8.1-9.2	637-756	8.0-9.5	≥1194	≥15.0				
	XG18H	135-159	17-20	0.81-0.92	8.1-9.2	637-756	8.0-9.5	≥1592	≥20.0				
	XG20	151-175	19-22	0.85-0.95	8.5-9.5	637-756	8.0-9.58	≥1194	≥15.0				
	XG20H	151-175	19-22	0.85-0.95	8.5-9.5	637-756	8.0-9.5	≥1592	≥20.0				
	XG22	167-191	21-24	0.89-1.0	8.9-10.0	661-772	8.3-9.7	≥1194	≥15.0				
XG22H	167-191	21-24	0.89-1.0	8.9-10.0	661-772	8.3-9.7	≥1592	≥20.0					
Sm2Co17	XGS22M	159-183	20-23	0.90-1.0	9.0-10.0	318-779	4.0-9.8	398-1194	5.0-15.0	8.4	-0.03	≥850	350
	XGS22	159-183	20-23	0.90-1.0	9.0-10.0	644-787	8.1-9.9	1194-1990	15.0-25.0				
	XGS22H	159-183	20-23	0.90-1.0	9.0-10.0	644-796	8.1-10.0	≥1990	≥25.0				
	XGS24M	175-199	22-25	0.92-1.04	9.2-10.4	318-788	4.0-9.9	398-1194	5.0-15.0				
	XGS24	175-199	22-25	0.92-1.04	9.2-10.4	661-796	8.3-10.0	1194-1990	15.0-25.0				
	XGS24H	175-199	22-25	0.92-1.04	9.2-10.4	661-804	8.3-10.1	≥1990	≥25.0				
	XGS26M	191-215	24-27	1.0-1.06	10.0-10.6	318-796	4.0-10.0	398-1194	5.0-15.0				
	XGS26	191-215	24-27	1.0-1.06	10.0-10.6	677-820	8.5-10.3	1194-1990	15.0-25.0				
	XGS26H	191-215	24-27	1.0-1.06	10.0-10.6	677-820	8.5-10.3	≥1990	≥25.0				
	XGS28M	207-231	26-29	1.04-1.10	10.4-11.0	318-804	4.0-10.1	398-1194	5.0-15.0				
	XGS28	207-231	26-29	1.04-1.10	10.4-11.0	677-820	8.5-10.3	1194-1990	15.0-25.0				
	XGS28H	207-231	26-29	1.04-1.10	10.4-11.0	677-820	8.5-10.3	≥1990	≥25.0				
	XGS30M	223-247	28-31	1.08-1.12	10.8-11.2	318-804	4.0-10.1	398-1194	5.0-15.0				
	XGS30	223-247	28-31	1.08-1.12	10.8-11.2	700-828	8.8-10.4	1194-1990	15.0-25.0				
	XGS30H	223-247	28-31	1.08-1.12	10.8-11.2	700-828	8.8-10.4	≥1990	≥25.0				
	XGS32M	231-255	29-32	1.12-1.15	11.2-11.5	318-804	4.0-10.1	398-1194	5.0-15.0				
	XGS32	231-255	29-32	1.12-1.15	11.2-11.5	755-850	9.5-10.7	1194-1990	15.0-25.0				
	XGS32H	231-255	29-32	1.12-1.15	11.2-11.5	755-858	9.5-10.8	≥1990	≥25.0				
XGS33M	246-262	31-33	1.14-1.17	11.4-11.7	318-804	4.0-10.1	398-1194	5.0-15.0					
XGS33	246-262	31-33	1.14-1.17	11.4-11.7	788-870	9.9-10.9	1194-1990	15.0-25.0					
XGS33H	246-262	31-33	1.14-1.17	11.4-11.7	830-880	10.4-11.0	≥1990	≥25.0					
Low Temp Coeff Sm2Co17	XGS22LT	159-183	20-23	0.90-0.99	9.0-9.9	677-756	8.5-9.5	≥1194	≥15.0	8.4	-0.01	≥850	350
	XGS24LT	175-199	22-25	0.92-1.02	9.2-10.2	677-756	8.5-9.5	≥1194	≥15.0		-0.02		
	XGS26LT	191-223	25-28	1.0-1.07	10.0-10.7	724-812	9.1-10.2	≥1433	≥18.0				