SmCo YX-YXG Magnetic Properties

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No.	Family	Grade	Br T	Hcb kA/m	Hcj kA/m	(BH)max kJ/m³	Br kGs	Hcb kOe	Hcj kOe	(BH)max MGOe	Max working temperature °C
1	SmCo5	YX-16	0.81-0.85	620-660	1194-1830	110-127	8.1-8.5	7.8-8.3	15-23	14-16	250
2	SmCo5	YX-18	0.85-0.90	660-700	1194-1830	127-143	8.5-9.0	8.3-8.8	15-23	16-18	250
3	SmCo5	YX-20	0.90-0.94	676-725	1194-1830	150-167	9.0-9.4	8.5-9.1	15-23	19-21	250
4	SmCo5	YX-22	0.92-0.96	710-748	1194-1830	160-175	9.2-9.6	8.9-9.4	15-23	20-22	250
5	SmCo5	YX-24	0.96-1.00	730-770	1194-1830	175-190	9.6-10.0	9.2-9.7	15-23	22-24	250
6	SmCo5	YX-16s	0.79-0.84	620-660	≥1830	118-135	7.9-8.4	7.8-8.3	≥23	15-17	250
7	SmCo5	YX-18s	0.84-0.89	660-700	≥1830	135-151	8.4-8.9	8.3-8.8	≥23	17-19	250
8	SmCo5	YX-20s	0.89-0.93	684-732	≥1830	150-167	8.9-9.3	8.6-9.2	≥23	19-21	250
9	SmCo5	YX-22s	0.92-0.96	710-756	≥1830	167-183	9.2-9.6	8.9-9.5	≥23	21-23	250
10	SmCo5	YX-24s	0.96-1.00	740-788	≥1830	183-199	9.6-10.0	9.3-9.9	≥23	23-25	250
11	Sm2Co17	YXG-24H	0.95-1.02	692-764	≥1990	175-191	9.5-10.2	8.7-9.6	≥25	22-24	350
12	Sm2Co17	YXG-26H	1.02-1.05	748-796	≥1990	191-207	10.2-10.5	9.4-10.0	≥25	24-26	350
13	Sm2Co17	YXG-28H	1.03-1.08	756-812	≥1990	207-223	10.3-10.8	9.5-10.2	≥25	26-28	350
14	Sm2Co17	YXG-30H	1.08-1.10	788-835	≥1990	223-239	10.8-11.0	9.9-10.5	≥25	28-30	350
15	Sm2Co17	YXG-32H	1.10-1.13	812-860	≥1990	231-255	11.0-11.3	10.2-10.8	≥25	29-32	350
16	Sm2Co17	YXG-33H	1.12-1.16	845-890	≥1990	239-263	11.2-11.6	10.6-11.2	≥25	30-33	350
17	Sm2Co17	YXG-35H	1.16-1.20	860-908	≥1830	255-278	11.6-12.0	10.8-11.4	≥23	32-35	350
18	Sm2Co17	YXG-22	0.93-0.97	676-740	≥1433	160-183	9.3-9.7	8.5-9.3	≥18	20-23	300
19	Sm2Co17	YXG-24	0.95-1.02	692-764	≥1433	175-191	9.5-10.2	8.7-9.6	≥18	22-24	300
20	Sm2Co17	YXG-26	1.02-1.05	748-796	≥1433	191-207	10.2-10.5	9.4-10.0	≥18	24-26	300
21	Sm2Co17	YXG-28	1.03-1.08	756-812	≥1433	207-223	10.3-10.8	9.5-10.2	≥18	26-28	300
22	Sm2Co17	YXG-30	1.08-1.10	788-835	≥1433	223-239	10.8-11.0	9.9-10.5	≥18	28-30	300
23	Sm2Co17	YXG-32	1.10-1.13	812-860	≥1433	231-255	11.0-11.3	10.2-10.8	≥18	29-32	300
24	Sm2Co17	YXG-33	1.12-1.16	845-890	≥1433	239-263	11.2-11.6	10.6-11.2	≥18	30-33	300
25	Sm2Co17	YXG-35	1.16-1.20	860-908	≥1433	255-278	11.6-12.0	10.8-11.4	≥18	32-35	250
26	Sm2Co17	YXG-26M	1.02-1.05	676-780	955-1433	199-215	10.2-10.5	8.5-9.8	12-18	25-27	300

Temperature condition: L/D = 0.7, typical. Maximum working temperature depends on magnet geometry, dimensions, magnetic circuit and operating conditions; do not infer it solely from the grade suffix.

Temperature revision (24 Oct 2026): YXG-35 = 250 °C; YXG-35H = 350 °C. Other numeric properties retain the 20 October 2026 reference values. Historical version differences remain relevant to other fields; agree one complete grade specification before use.

Confirm the grade, drawing, operating point and applicable data version with engineering before use. Numeric values, inequalities, units and family labels are retained from the reference snapshot except for the stated temperature revision.

SmCo YX-YXG Magnetic Properties

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No.	Family	Grade	Br T	Hcb kA/m	Hcj kA/m	(BH)max kJ/m³	Br kGs	Hcb kOe	Hcj kOe	(BH)max MGOe	Max working temperature °C
27	Sm2Co17	YXG-28M	1.03-1.08	676-796	955-1433	207-223	10.3-10.8	8.5-10.0	12-18	26-28	300
28	Sm2Co17	YXG-30M	1.08-1.10	676-835	955-1433	223-240	10.8-11.0	8.5-10.5	12-18	28-30	300
29	Sm2Co17	YXG-32M	1.10-1.13	676-852	955-1433	231-255	11.0-11.3	8.5-10.7	12-18	29-32	300
30	Sm2Co17	YXG-24L	0.95-1.02	541-716	636-955	183-199	9.5-10.2	6.8-9.0	8-12	23-25	250
31	Sm2Co17	YXG-26L	1.02-1.05	541-748	636-955	199-215	10.2-10.5	6.8-9.4	8-12	25-27	250
32	Sm2Co17	YXG-28L	1.03-1.08	541-764	636-955	207-223	10.3-10.8	6.8-9.6	8-12	26-28	250
33	Sm2Co17	YXG-30L	1.08-1.15	541-796	636-955	223-239	10.8-11.5	6.8-10.0	8-12	28-30	250
34	Sm2Co17	YXG-32L	1.10-1.15	541-812	636-955	231-255	11.0-11.5	6.8-10.2	8-12	29-32	250

Temperature condition: L/D = 0.7, typical. Maximum working temperature depends on magnet geometry, dimensions, magnetic circuit and operating conditions; do not infer it solely from the grade suffix.

Temperature revision (24 Oct 2026): YXG-35 = 250 °C; YXG-35H = 350 °C. Other numeric properties retain the 20 October 2026 reference values. Historical version differences remain relevant to other fields; agree one complete grade specification before use.

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