

Sm-Co Magnet

Magnetic and physical properties

| 材料 MATERIALS | 材質 GRADE | 残留磁束密度【Br】 Residual Flux Density | 保磁力 | | 最大エネルギー積 【(BH)max】 Max Energy Pproduct | 耐熱温度【TW】 Max Working Temp. | 密度 Density |
|-----------------|-------------|-------------------------------------|-------------------------|-----------------------------------|--|-------------------------------|---------------|
| | | | 【Hcb】 Coercive Force | 【Hcj】 Intrinsic Coercive Force | | | |
| | | | T (KGs) | kA/m (KOe) | | | |
| 1:5 SmCo5 | YX-16 | 0.81-0.85 (8.1-8.5) | 620-660 (7.8-8.3) | 1194-1830 (15-23) | 110-127 (14-16) | 250 | 8.3 |
| | YX-18 | 0.85-0.9 (8.5-9.0) | 660-700 (8.3-8.8) | 1194-1830 (15-23) | 127-143 (16-18) | 250 | 8.3 |
| | YX-20 | 0.9-0.94 (9.0-9.4) | 680-725 (8.5-9.1) | 1194-1830 (15-23) | 150-167 (19-21) | 250 | 8.3 |
| | YX-22 | 0.92-0.96 (9.2-9.6) | 710-750 (8.9-9.4) | 1194-1830 (15-23) | 160-175 (20-22) | 250 | 8.3 |
| | YX-24 | 0.96-1.0 (9.6-10.0) | 730-770 (9.2-9.7) | 1194-1830 (15-23) | 175-190 (22-24) | 250 | 8.3 |
| 2:17 Sm2Co17 | YXG-24 | 0.95-1.02 (9.5-10.2) | 700-750 (8.7-9.4) | ≥1433 (≥18) | 175-191 (22-24) | 300 | 8.4 |
| | YXG-26 | 1.02-1.05 (10.2-10.5) | 750-800 (9.4-9.8) | ≥1433 (≥18) | 191-207 (24-26) | 300 | 8.4 |
| | YXG-28 | 1.03-1.08 (10.3-10.8) | 756-796 (9.5-1.0) | ≥1433 (≥18) | 207-220 (26-28) | 300 | 8.4 |
| | YXG-30 | 1.08-1.10 (10.8-11.0) | 788-835 (9.9-10.5) | ≥1433 (≥18) | 220-240 (28-30) | 300 | 8.4 |
| | YXG-24H | 0.95-1.02 (9.5-10.2) | 700-750 (8.7-9.4) | ≥1990 (≥25) | 175-191 (22-24) | 350 | 8.4 |
| | YXG-26H | 1.02-1.05 (10.2-10.5) | 750-800 (9.4-9.8) | ≥1990 (≥25) | 191-207 (24-26) | 350 | 8.4 |
| | YXG-28H | 1.03-1.08 (10.3-10.8) | 756-796 (9.5-1.0) | ≥1990 (≥25) | 207-220 (26-28) | 350 | 8.4 |
| | YXG-30H | 1.08-1.10 (10.8-11.0) | 788-835 (9.9-10.5) | ≥1990 (≥25) | 220-240 (28-30) | 350 | 8.4 |
| | YXG-26M | 1.02-1.05 (10.2-10.5) | 750-800 (9.4-9.8) | 955-1273 (12-16) | 191-207 (24-26) | 300 | 8.4 |
| | YXG-28M | 1.03-1.08 (10.3-10.8) | 756-796 (9.5-1.0) | 955-1273 (12-16) | 207-220 (26-28) | 300 | 8.4 |
| | YXG-30M | 1.08-1.10 (10.8-11.0) | 788-835 (9.9-10.5) | 955-1273 (12-16) | 220-240 (28-30) | 300 | 8.4 |
| | YXG-28L | 1.02-1.08 (10.2-10.8) | 413-716 (5.2-9.0) | 438-796 (5.5-10) | 207-220 (26-28) | 250 | 8.4 |
| | YXG-30L | 1.08-1.15 (10.8-11.5) | 413-716 (5.2-9.0) | 438-796 (5.5-10) | 220-240 (28-30) | 250 | 8.4 |

| 材料 Materials | 1:5 SmCo5 | 1:5 SmCo5 | 2:17 Sm2Co17 | 2:17 Sm2Co17 |
|--|----------------|----------------|-----------------|-----------------|
| 保磁力Hcj Hcj Range | Hcj ≤ 1194KA/m | Hcj ≥ 1194KA/m | Hcj ≤ 1273KA/m | Hcj ≥ 1433KA/m |
| 飽和磁化磁場強度【H】 Saturation Field Strength | 2400 KA/m | 3500 KA/m | 3500 KA/m | 5000 KA/m |

* The lowest saturation field strength value of sintered Sm₂-Co₁₇ is 2-3 times of its Hcj value.

Besides the above grades, our company also have the process capacity to manufacture custom-made Sm-Co magnets with specific characteristics to meet customers' requirements.

General Dimensions and Shapes

| | | | | | |
|-------------|--------------|-------------|-------------|-----------|----------------|
| | Block | | Disk | | Segment |
| L 1-200mm | L 1-200mm | D 1.2-100mm | D 1.2-100mm | W 3-200mm | W 3-200mm |
| W 0.5-100mm | W 0.5-100mm | d 0.3-8.0mm | d 0.3-8.0mm | T 1-100mm | T 1-100mm |
| H 0.3-120mm | H 0.3-120mm | T 0.3-6.0mm | T 0.3-6.0mm | H 1-100mm | H 1-100mm |

Japan Magnets, Inc

Head Office / Japan Bldg 4F, 1-1646-2, Kamikawa, Suwa, Nagano, Japan zipcode 392-0021

Tel / +81-266-56-1021

Fax / +81-266-56-1430

HP / <http://www.japanmagnets.net>