

Magnetic properties of magnets

Various types of magnetic materials are available. Many kinds including isotropic and anisotropic ferrites, rare earth magnets, rubber magnet sheets, colored magnet sheets, etc. are available in various sizes.

※The table of main characteristics for comparison.

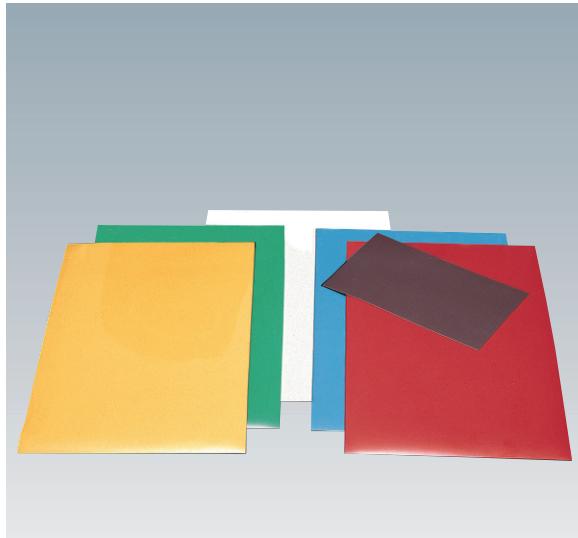
| Kinds of Permanent Magnet | Residual Magnetic Flux Density (Br) | Holding Power (BHC) |
|-----------------------------------|-------------------------------------|-----------------------|
| | T (G) | kA/m (Oe) |
| Anisotropic ferrite | 0.36–0.42 (3600–4200) | 239–271 (3000–3400) |
| Rare earth magnet samarium-cobalt | 0.98–1.06 (9800–10600) | 477–637 (6000–8000) |
| Rare earth magnet neodymium | 1.0–1.33 (10000–13300) | 836–995 (10500–12500) |
| Alnico magnet | 1.28–1.35 (12800–13500) | 52–58 (650–726) |

Rubber magnet sheet

| Kinds of Permanent Magnet | Residual Magnetic Flux Density (Br) | Holding Power (BHC) |
|---------------------------|-------------------------------------|---------------------|
| | T (G) | kA/m (Oe) |
| Anisotropic | 0.22–0.23 (2250–2350) | 159–174 (2000–2180) |
| Isotropic | 0.14–0.15 (1400–1550) | 100–111 (1250–1400) |

No. 1 RUBBER MAGNET SHEET

●Flexible rubber magnet sheets having excellent magnetic properties.



| Type | Thickness | Width | Length | [mm(in)] | Type | Thickness | Width | Length | [mm(in)] |
|-------------|---------------|-----------|------------|-------------|--|--------------|------------|------------|-------------|
| | | | | Solid color | | | | | Solid color |
| Anisotropic | ① 0.8(0.031) | 100(3.93) | 1000(39.3) | | Isotropic | ② 0.8(0.031) | 1000(39.3) | 1000(39.3) | |
| | ① 1.0(0.039) | 100(3.93) | 1000(39.3) | | | ② 1.0(0.039) | 1000(39.3) | 1000(39.3) | |
| | ① 1.0(0.039) | 200(7.87) | 1000(39.3) | | | ③ 2.0(0.078) | 10(0.39) | 1000(39.3) | |
| | ① 1.2(0.047) | 200(7.87) | 1000(39.3) | | | ③ 3.0(0.118) | 15(0.59) | 1000(39.3) | |
| | ① 1.5(0.059) | 200(7.87) | 1000(39.3) | | | ③ 4.0(0.157) | 8(0.31) | 1000(39.3) | |
| | ① 1.6(0.063) | 100(3.93) | 1000(39.3) | | | ③ 5.0(0.197) | 15(0.59) | 1000(39.3) | |
| | ① 2.0(0.078) | 100(3.93) | 1000(39.3) | | Colored sheets (white, red, yellow, green, blue) | | | | |
| | ① 2.0(0.078) | 200(7.87) | 1000(39.3) | | | | | | |
| | ① 3.0(0.118) | 100(3.93) | 1000(39.3) | | | | | | |
| | ① 3.0(0.118) | 200(7.87) | 1000(39.3) | | | | | | |
| | ① 2.5(0.098) | 200(7.87) | 1000(39.3) | | | | | | |
| | ① 3.5(0.137) | 200(7.87) | 1000(39.3) | | | | | | |
| | ① 4.0(0.157) | 200(7.87) | 1000(39.3) | | | | | | |
| | ① 3.0(0.118) | 20(0.78) | 1000(39.3) | | Colored sheets (white, red, yellow, green, blue, orange) | | | | |
| | ④ 5.0(0.197) | 61(2.40) | 950(37.4) | | | | | | |
| | ④ 10.0(0.393) | 30(1.18) | 1000(39.3) | | | | | | |

※① : Anisotropic one face multi poles (a lot of N-S on one face only by anisotropic)

※② : Isotropic one face multi poles (a lot of N-S on one face only by Isotropic)

※③ : Isotropic one face 2 poles (N-S on one face only by Isotropic)

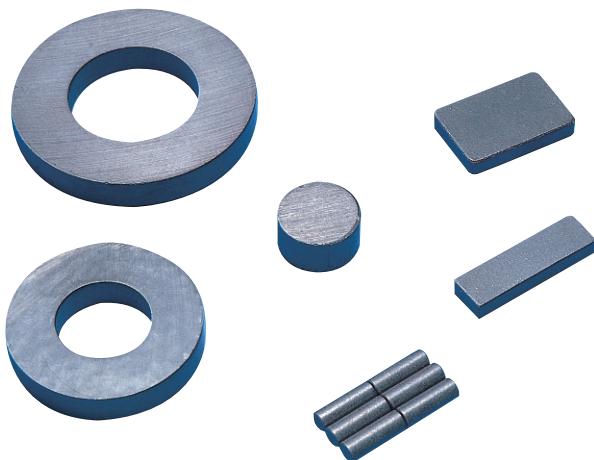
※④ : Anisotropic magnetized on both faces (magnetized in the direction of thickness)

※"S" refers to non-lustrous sheets and "D" refers to lustrous sheets.

※Colored sheets have been cut to specific sizes.

No. 2 FERRITE MAGNET (ROUND/RECTANGULAR)

●Anisotropic: Ferrite magnets having significantly higher magnetic property than isotropic magnets. In addition to dry types, a wet anisotropic magnet having a particularly high magnetic flux density is also available (made to order).



Anisotropic

| Shape | Diameter | Thickness | Shape | Size | Thickness |
|-----------------------|------------------------|------------|-------------|-----------------------|------------|
| Round (incl. ring) | φ15(0.59) | 4.0(0.15) | Rectangular | 20(0.78) × 15(0.59) | 4.0(0.15) |
| | φ20(0.78) | 4.0(0.15) | | 20(0.78) × 15(0.59) | 7.0(0.27) |
| | φ27(1.06) × φ17(0.66) | 3.0(0.11) | | 40(1.57) × 25(0.98) | 10.0(0.39) |
| | φ30(1.18) | 5.0(0.19) | | 40(1.57) × 10(0.39) | 7.0(0.27) |
| | φ30(1.18) | 8.0(0.31) | | 40(1.57) × 40(1.57) | 10.0(0.39) |
| | φ100(3.93) × φ60(2.36) | 15.0(0.59) | | 100(3.93) × 100(3.93) | 10.0(0.39) |

※Even if a magnet of a size listed above is to be ordered, a certain quantity of such magnets may in some cases need to be ordered at a time.

