totalElement

SPECIFICATION SHEET
Part no. D316X38N52

# Disc Magnet

## 3/16 x 3/8 Inch (4.76 x 9.53 mm)

Diameter x Thickness

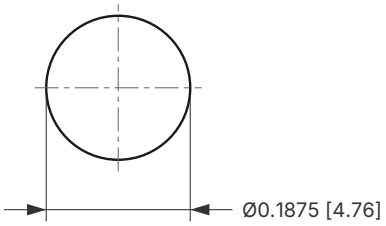
ISOMETRIC VIEW — Not to scale



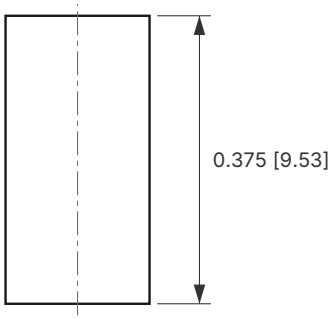
SPECIFICATIONS

| | |
|---|---|
| DIAMETER | 0.1875 Inch [4.76 mm] |
| THICKNESS | 0.375 Inch [9.53 mm] |
| TOLERANCE | ±0.004 Inch [±0.10 mm] |
| MATERIAL | Sintered Neodymium (NdFeB) |
| GRADE | N52 |
| COATING | Nickel-Copper-Nickel (Ni-Cu-Ni) |
| MAGNETIZATION | Axially, through the thickness |
| PULL FORCE | 2.5 lbs (1.1 kg) |
| SURFACE FIELD | 7,179 Gauss (718 mT) |
| WEIGHT (EACH) | 1.3 g (0.046 oz) |

DIMENSIONS Inch [mm] · not to scale

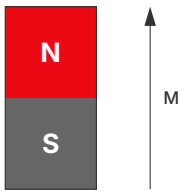



TOP VIEW




FRONT VIEW

MAGNETIZATION




Axially magnetized through the 0.375 [9.53] thickness. Pole faces shown for illustration.

GRADE PROPERTIES · N52

| PROPERTY | SI | CGS / IMPERIAL |
|---|---|---|
| Remanence (Br) | 1.43–1.48 T | 14.3–14.8 kG |
| Coercivity (Hcb) | ≥ 836 kA/m | ≥ 10.5 kOe |
| Intrinsic coercivity (Hcj) | ≥ 876 kA/m | ≥ 11 kOe |
| Max. energy product (BH)max | 398–422 kJ/m³ | 50–53 MGOe |
| Max. operating temperature | 80 °C | 176 °F |

Typical values for sintered NdFeB of grade N52 at room temperature, not measured on this part. The highest safe working temperature also depends on the magnet's shape and how it's used.

Handling: neodymium magnets are brittle and can chip, or pinch skin, if they snap together. Keep them away from pacemakers and magnetic media.

VIEW ONLINE

Scan to open this magnet on totalElement.com.

CAD FILES

The technical drawing and 3D model are on the product page.

totalElement
totalElement.com
help@totalelement.com
1 (855) 328-2822