totalElement

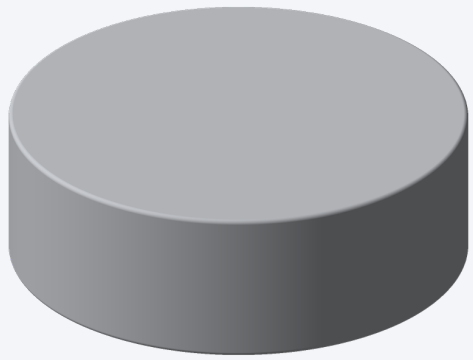
SPECIFICATION SHEET
Part no. D21X7MMN52

Disc Magnet

21 x 7 mm (0.8268 x 0.2756 Inch)

Diameter x Thickness

ISOMETRIC VIEW — Not to scale

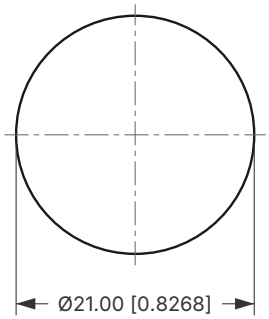


SPECIFICATIONS

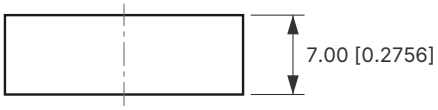
DIAMETER	21.00 mm [0.8268 Inch]
THICKNESS	7.00 mm [0.2756 Inch]
TOLERANCE	±0.10 mm [±0.004 Inch]
MATERIAL	Sintered Neodymium (NdFeB)
GRADE	N52
COATING	Nickel-Copper-Nickel (Ni-Cu-Ni)
MAGNETIZATION	Axially, through the thickness
PULL FORCE	28.3 lbs (12.8 kg)
SURFACE FIELD	4,105 Gauss (410 mT)
WEIGHT (EACH)	18.4 g (0.65 oz)

DIMENSIONS

mm [Inch] · not to scale



TOP VIEW



FRONT VIEW

MAGNETIZATION



Axially magnetized through the 7.00 [0.2756] 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