

1. General Information

Material	NdFeB (Neodymium Iron Boron)
Shape	Disc
Dimensions	D10 × 2 mm
Tolerance	± 0,1 mm
Coating	Ni-Cu-Ni (Nickel)
Magnetisation	Axial (2 mm)
Grade	N42
Pull force (on 5 mm steel plate)	approx. 1,5 kg
Max. working temperature	80 °C
Weight	1,20 g



2. Technical Drawing



Dimensions:

D = 10 mm

H = 2 mm

Magnetisation:

Axial (through thickness)

3. Pull Force Examples

1. Magnet on steel plate
(plate thickness 5 mm)



1,5 kg

2. Between two steel plates
(plate thickness 5 mm each)



4,40 kg

3. Magnet to magnet



1,5 kg

4. Magnetic Properties of Material N42

Remanence Br	1,29 – 1,32 T (12 900 – 13 200 G)
Coercivity HCB (min.)	≥ 955 kA/m
Coercivity HCJ (min.)	≥ 955 kA/m
Maximum energy product (BH) _{max}	318 – 334 kJ/m ³
Curie temperature	310 °C

5. Certificates & Compliance



Physikalisch-Technische Bundesanstalt
National Metrology Institute

