

Specifications

These disc magnets are 0.250 inch (6.4mm) diameter and 0.125 inch (3.2mm) thick. They are magnetized through the thickness. They are composed of grade 40 neodymium iron boron magnetic material and are plated in nickel-copper-nickel for a shiny corrosion resistant finish. Their individual pull force is approximately 2.7 lbs. Maximum working temperature is 176 F (80 C).



Part Number	NSN0579
Imperial Dimensions	0.25 inch diameter x 0.125 inch thick
Metric Dimensions	6.35mm diameter x 3.175mm thick
Material	Sintered Neodymium-Iron-Boron (NdFeB)
Shape	Disc
Plating	Ni-Cu-Ni (Nickel)
Magnetization Direction	Thickness
Grade	N40
Pull Force	2.67[1211]
Surface Field	3908
Packaging	Magpak Tube
UPC	897970000792
Magnet Quantity	40
Brand	Magcraft

Maximum Operating Temperature	80 Deg C (176 Deg F)
Maximum Energy Product B_{hmax} (MGOe (kJ/m ³))	38-41 [302-326]
Remanent Flux Density B_r (kG (T))	12.5-12.8 [1.25-1.28]
Coercivity H_{cB} (kOe (kA/m))	≥ 11.3 [≥ 923]
Intrinsic Coercivity H_{cJ} (kOe (kA/m))	≥ 12.0 [≥ 995]
Dimensional Tolerance	+/-0.005"
Density ρ (g/cm ³)	≥ 7.45
Compression Strength (Mpa)	600-1200
Bending Strength (Mpa)	150-380
Vickers Hardness (HV)	460-660
Recoil Permeability (μ_{rec})	1.05
Electrical Resistance (Ω -mm ² /m)	1.25-1.55
Curie Temperature T_c (°C)	310
Thermal Expansion Coefficient 100°C // (x10 ⁻⁶ /K)	6
Thermal Expansion Coefficient 100°C ⊥ (x10 ⁻⁶ /K)	-1

