

Specifications

These block magnets are 0.75 inch (19.1mm) long, 0.75 inch (19.1mm) wide, and 0.125 inch (3.2mm) thick. 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 9 lbs. Max Working Temperature - 176 F (80 C).



Part Number	NSN0612
Imperial Dimensions	0.75 inch long x 0.75 inch wide x 0.125 inch thick
Metric Dimensions	19.05mm long x 19.05mm wide x 3.175mm thick
Material	Sintered Neodymium-Iron-Boron (NdFeB)
Shape	Block
Plating	Ni-Cu-Ni (Nickel)
Magnetization Direction	Thickness
Grade	N40
Pull Force	9.05[4105]
Surface Field	2810
Packaging	Magpak Tube
UPC	875661000122
Magnet Quantity	6
Brand	Magcraft
Maximum Operating Temperature	80 Deg C (176 Deg F)
Maximum Energy Product Bhmax (MGOe (kJ/m3))	38-41 [302-326]
Remanent Flux Density Br (kG (T))	12.5-12.8 [1.25-1.28]
Coercivity HcB (kOe (kA/m))	≥11.3 [≥923]
Intrinsic Coercivity Hcj (kOe (kA/m))	≥12.0 [≥995]
Dimensional Tolerance	+/-0.005"
Density ρ (g/cm3)	≥7.45
Compression Strength (Mpa)	600-1200
Bending Strength (Mpa)	150-380
Vickers Hardness (HV)	460-660
Recoil Permeability (μrec)	1.05
Electrical Resistance (Ω·mm2/m)	1.25-1.55
Curie Temperature Tc (°C)	310
Thermal Expansion Coefficient 100°C // (x10 ⁻⁶ /K)	6
Thermal Expansion Coefficient 100°C ⊥ (x10 ⁻⁶ /K)	-1

