

Neodymium/Iron/Boron Alloy Rod (Nd₂Fe₁₄B)

Formula: Nd₂Fe₁₄B

Diameter: 6.35mm

Length: 2mm

Type: Rare Earth Magnet

Coating: Parylene coated

UOM Code: 916-769-97

SKU: 1000141252-group

Product Code: ND01-RD-000110

Material Properties for Alloys

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	1.1-1.7

Magnetic Properties

Element	Value
Coercivity (Hc)(A m^{-1})	875-1990
Curie temperature($^{\circ}\text{C}$)	310
Remanence from saturation (Brem)(T)	1-1.3

Physical Properties

Element	Value
Density(gcm^{-3})	7.5

Mechanical Properties

Element	Value
Modulus of elasticity(GPa)	150
Hardness - Vickers(kgf mm^{-2})	580
Tensile strength(MPa)	75

Thermal Properties

Element	Value
Thermal conductivity($W m^{-1} K^{-1}$)	9@23°C
Coefficient of thermal expansion($\times 10^{-6} K^{-1}$)	5.2@20-100°C