

Invar® Rod

Formula: Fe64/Ni36

Diameter: 30mm

Length: 1000mm

UOM Code: 006-148-09

SKU: 1000000818-group

Product Code: FE02-RD-000153

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	160
Elongation at break(%)	45
Modulus of elasticity(GPa)	140-150
Tensile strength(MPa)	450-590

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	75-85

Magnetic Properties

Element	Value
Curie temperature(C)	279

Thermal Properties

Element	Value
Melting point(C)	1427
Specific heat(J K ⁻¹ kg ⁻¹)	515@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	13@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	1.7-2@20-90°C

Physical Properties

Element	Value
Density(gcm ³)	8