

# Inconel® 600 Tube

**Formula:** Ni72/Cr16/Fe 8

**Outside Diameter:** 12.7mm

**Wall Thickness:** 1.63mm

**Inside Diameter:** 9.44mm

**Length:** 500mm

**Temper:** Annealed

**UOM Code:** 023-374-98

**SKU:** 1000002815-group

**Product Code:** NI02-TB-000400

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	120-290
Elongation at break( % )	50
Modulus of elasticity( GPa )	157
Izod impact strength( J m <sup>2</sup> )	160
Shear strength( MPa )	420-570
Tensile strength( MPa )	600-1200

### Magnetic Properties

Element	Value
Initial permeability	1.01
Curie temperature( C )	-124

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	103

### Thermal Properties

Element	Value
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Melting point( C )	1370-1425
Specific heat( J K <sup>-1</sup> kg <sup>-1</sup> )	444@23°C
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	14.8@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	11.5-13.3@20-100°C

## Physical Properties

Element	Value
Density( gcm <sup>-3</sup> )	8.42