

Inconel® 600 Disk

Formula: Ni72/Cr16/Fe 8

Temper: Annealed

Thickness: 0.025mm

Diameter: 4mm

UOM Code: 034-229-11

SKU: 1000004469-group

Product Code: NI02-FL-000102

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 ²)	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
Melting point(C)	1370-1425
Specific heat(J K ⁻¹ kg ⁻¹)	444@23°C

Element	Value
Thermal conductivity(W m ⁻¹ K ⁻¹)	14.8@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	11.5-13.3@20-100°C

Physical Properties

Element	Value
Density(gcm ⁻³)	8.42