

Inconel® 625 Foil (Light Tight)

Formula: Ni61/Cr22/Mo 9/Fe 5

Temper: Annealed

Thickness: 0.1mm

Length 1: 100mm

Length 2: 100mm

UOM Code: 054-430-40

SKU: 1000007695-group

Product Code: NI04-FL-000130

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	175-240
Elongation at break(%)	40
Modulus of elasticity(GPa)	147-210
Tensile strength(MPa)	950

Magnetic Properties

Element	Value
Initial permeability	1.0006
Curie temperature(C)	-196

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	129
Temperature coefficient(K^{-1})	-

Thermal Properties

Element	Value
Melting point(C)	1290-1350
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	410@23°C

Element	Value
Thermal conductivity(W m ⁻¹ K ⁻¹)	9.8@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	12.8@20-100°C

Physical Properties

Element	Value
Density(gcm ⁻³)	8.44