

Constantan® Foil (Light Tight)

Formula: Cu55/Ni45

Temper: Annealed

Thickness: 1mm

Length 1: 185mm

Length 2: 1000mm

UOM Code: 003-748-46

SKU: 1000000490-group

Product Code: CU04-FL-000350

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	100-300
Elongation at break(%)	45
Modulus of elasticity(GPa)	162
Izod impact strength(J m ²)	107
Tensile strength(MPa)	400-590

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	52
Temperature coefficient(K ⁻¹)	0.00002+/-

Thermal Properties

Element	Value
Maximum use temperature in air(C)	500
Melting point(C)	1225-1300
Thermal conductivity(W m ⁻¹ K ⁻¹)	19.5@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	14.9@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	8.9