

AISI 321 Stainless Steel Foil

Formula: Fe/Cr18/Ni 9/Ti

Temper: As Rolled

Thickness: 0.015mm

Length 1: 150mm

Length 2: 150mm

UOM Code: 029-092-46

SKU: 1000003626-group

Product Code: FE21-FL-000120

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	160-190
Elongation at break(%)	60
Modulus of elasticity(GPa)	190-210
Izod impact strength(J m ²)	20-136
Tensile strength(MPa)	560

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70-73
Temperature coefficient(K ⁻¹)	-

Thermal Properties

Element	Value
Maximum use temperature in air(C)	800
Melting point(C)	1400-1425
Thermal conductivity(W m ⁻¹ K ⁻¹)	16.3@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	18@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	7.9