

Features

- High Purity a commercially pure grade of aluminium with a minimum of 99.5% aluminium content.
- Excellent Corrosion Resistance offers very good resistance to chemical and atmospheric corrosion, making it suitable for use in industrial and marine environments and chemical process equipment.
- High Ductility, the material is very flexible and easily formed, bent, or spun without cracking.
- High Thermal and Electrical Conductivity, an excellent conductor of both heat and electricity, making it suitable for applications such as heat sinks, electrical engineering, and capacitors.
- Highly Reflective Finish

RS PRO 1050A ALUMINIUM FOIL L:500MM x W:305MM x T:0.1MM

RS Stock No: 0749189



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO offers this exceptionally thin, high-purity 99.5% 1050A Aluminium Alloy foil, precision-rolled to an ultra- fine 0.1mm thickness. Supplied in the fully annealed (O Condition). This foil delivers maximum flexibility and ductility while retaining the superior thermal and electrical properties of pure aluminium.

1050A is a commercially pure, non-heat-treatable aluminium alloy with a minimum 99.5% aluminium content. Ideal for high-precision, lightweight, and electrical applications where minimal material thickness is critical. A bright, clean finish is typical for this grade of aluminium.

Applications:

- *Capacitors: As part of the electrical coils and other electronic parts, aluminium foil is used in the manufacturing of capacitors for products like Radios and TVs.*
- *Cable Insulation: The foils high conductivity and barrier properties make it a shield against moisture & electromagnetic interference in high-voltage and communication cables.*
- *Electrical coils: The material is used to create electrical coils in components such as transformers.*
- *Heat exchangers: Aluminium foil between 0.1mm and 0.13mm thick is used for the fins in air conditioner heat exchangers.*
- *Beyond capacitors, 0.1mm foil is used in many other electronic components.*

General Specification

Material	Aluminium 1050A
Form	Roll
Grade	1050A
Finish	Bright (Silver)
Length	5000MM
Width	305MM
Density	2.70 g/cm ³
Melting Point	645°C to 660°C

Mechanical Properties

Tensile Strength	65 - 95 MPa
Temper	O (Fully Annealed)
Elongation at Break	20% - 40%
Hardness	18 to 25 HB
Yield Strength	20 MPa Minimum
Elastic Modulus	70GPa
Shear Strength	50 - 70 MPa

Approvals

Compliance/Certifications	RoHS Compliant
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Similar Products

RS Stock Code	Form	Length	Thickness	Width
0749189	Roll	500mm	0.1mm	305mm
0749190	Roll	1000mm	0.1mm	305mm
0749191	Roll	2000mm	0.1mm	305mm
0749192	Roll	5000mm	0.1mm	305mm