

Features

- Very good electrical and thermal conductivity values.
- Good corrosion resistance.
- Excellent joining properties.
- Ideal for plating and polishing.
- Non-magnetic and spark resistance.
- Ideal for transferring liquids, heat and gases.
- Suitable for both domestic and commercial use, it is designed for general service applications including hot and cold-water supplies, central heating, sanitation, and transferring liquids, gases, and oils.
- Hygiene and Safety: The material is resistant to bacterial growth, which makes it an ideal choice for use in drinking water conveyance and other water-carrying applications.

RS PRO C101 Copper Sheet L:500MM X W: 500MM X T:0.9MM

RS Stock No: 0793341



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product Description

RS PRO C101 Copper Sheet

RS PRO C101 Copper Sheet is a high-purity, Electrolytic Tough Pitch (ETP) copper known for its exceptional electrical and thermal conductivity. It typically contains 99.9% pure copper and is widely used in electrical engineering, architecture, and general industrial applications.

Key Features:

- *Superior Conductivity: Rated at a minimum of 101% IACS (International Annealed Copper Standard), it is the industry standard for high-performance electrical components.*
- *With a thermal conductivity of approximately 391 W/m.K, it is highly effective at dissipating heat in radiators and heat sinks.*
- *High Ductility and Impact Strength: This grade is extremely malleable, allowing it to be easily bent, cold-worked, or drawn into complex shapes without cracking.*
- *Corrosion Resistance: Naturally resistant to most atmospheric and aqueous environments, it eventually develops a protective blue-green patina that architects often favour for its aesthetic appeal.*
- *Excellent Joining Characteristics: It is ideally suited for soldering and brazing. However, it is susceptible to hydrogen embrittlement if welded in a reducing atmosphere due to its oxygen content.*

Applications:

- *Busbars and Switchgear*
- *Transformers and Motors*
- *Connectors and Contacts*
- *Printed Circuit Boards*

General Specifications

Material	Copper
Form	Sheet
Length	500MM

Metal Sheets

Width	500MM
Thickness	0.9MM

Mechanical Specifications

Density	8.92 g/cm ³
Modulus of Elasticity	117 - 118 GPa
Elongation (A50mm)	5% - 50%
Hardness (Vickers)	40 - 120 HV
0.2% Proof Stress	50 - 340 MPa
Tensile Strength	200 - 400 MPa (N/mm ²)

Similar Products

RS Code	Length	Width	Thickness
0793340	2000MM	1000MM	0.9MM
0793341	500MM	500MM	0.9MM
0793343	1200MM	600MM	3MM
0793344	2000MM	1000MM	2MM
0793345	500MM	500MM	500MM
0793346	1200MM	600MM	4MM
0793347	500MM	300MM	4MM