C1100 Copper Strip For Transformer

C1100 copper strip for transformer is a high-conductivity copper strip widely used for transformer winding, transformer coils and electrical conductor applications. With excellent electrical conductivity, smooth surface, good ductility and precise dimensional tolerance, C1100 copper strip is suitable for dry-type transformers, oil-immersed transformers, distribution transformers and power transformers.

For transformer manufacturers, conductor quality directly affects winding efficiency, insulation safety, temperature rise and transformer performance. C1100 copper strip provides high conductivity, good thermal conductivity and excellent formability, making it an ideal winding material for transformer coils.

Our C1100 copper strip for transformer is produced with strict control of thickness tolerance, width tolerance, surface quality, edge burr and coil shape. Soft annealed C1100 copper strip is available for easy winding and forming. Deburred edge or round edge can also be supplied to reduce the risk of damaging insulation paper or insulation film during transformer winding.

Customized specifications are available according to customer requirements, including thickness, width, temper, edge condition, coil inner diameter, coil weight and packaging method.

C1100 Copper Strip Specifications

Product Name	C1100 Copper Strip for Transformer
Material Grade	C1100 / C11000 / ETP Copper
Copper Content	Typically ≥99.90%
Temper	O / Soft / Annealed / Half Hard / Hard
Thickness	0.05 mm – 3.00 mm or customized
Width	10 mm – 500 mm or customized
Electrical Conductivity	Typically ≥100% IACS
Conductivity Value	Approx. ≥58 MS/m at 20°C

Electrical Resistivity	Approx. ≤0.01724 Ω·mm²/m at 20°C
Surface	Smooth, clean, bright, free from serious defects
Edge Condition	Slit edge / deburred edge / round edge
Inner Diameter	150 mm / 300 mm / 400 mm / 500 mm or customized
Coil Weight	According to customer requirement
Standard	JIS / ASTM / EN / GB or customer technical requirement
Application	Transformer winding, transformer coil, electrical conductor
Packaging	Wooden pallet / wooden case / export seaworthy package

Electrical Conductivity

Material Grade	Typical Conductivity	Conductivity Value	Resistivity at 20°C
C1100 Copper Strip	≥100% IACS	Approx. ≥58 MS/m	Approx. ≤0.01724 Ω·mm²/m
C11000 Copper Strip	≥100% IACS	Approx. ≥58 MS/m	Approx. ≤0.01724 Ω·mm²/m
ETP Copper Strip	≥100% IACS	Approx. ≥58 MS/m	Approx. ≤0.01724 Ω·mm²/m

Typical Mechanical Properties

Temper	Tensile Strength	Elongation	Application
O / Soft / Annealed	Approx. 200 – 260 MPa	⩾30%	Transformer winding, easy forming
Half Hard	Approx. 250 – 320 MPa	⩾10%	Electrical parts, conductor components
Hard	Approx. 300 – 380 MPa	Customized	Special electrical applications

Features of C1100 Copper Strip for Transformer

High electrical conductivity, typically ≥100% IACS
Approximate conductivity value: ≥58 MS/m at 20° C
Low electrical resistivity, approximately ≤0.01724 Ω • mm^2 /m at 20° C
High copper purity, typically ≥99.90%
Excellent current-carrying capacity
Good thermal conductivity
Soft annealed temper available
Good ductility and winding performance
Smooth and clean surface finish
Accurate thickness and width tolerance
Low burr edge for insulation protection
Deburred edge and round edge available
Suitable for transformer winding and transformer coil production
Custom thickness, width, coil size and edge condition available

Why Choose C1100 Copper Strip for Transformer?

C1100 copper strip is one of the most commonly used copper materials for transformer winding because it combines high conductivity, good formability and stable mechanical properties.

Compared with ordinary copper materials, C1100 copper strip provides better electrical performance and is suitable for transformer applications requiring high efficiency and reliable conductivity. Its excellent ductility also makes it suitable for coil winding, bending and insulation wrapping processes.

For transformer winding, the copper strip must have not only high conductivity but also stable thickness, clean surface and smooth edge. Poor edge quality may damage insulation materials during winding, while unstable thickness may affect coil size and transformer performance.
Our C1100 copper strip is manufactured and inspected to meet the strict requirements of transformer manufacturers.

Applications of C1100 Copper Strip

C1100 copper strip for transformer is widely used in:
Transformer winding
Transformer coils
Dry-type transformers

Oil-immersed transformers
Distribution transformers
Power transformers
Electrical reactors
High-current conductive components
Busbar and electrical conductor parts
Industrial electrical equipment

Quality

Smooth and Clean Surface
Surface quality is one of the key requirements for transformer copper strip. Our C1100 copper strip is supplied with a smooth and clean surface suitable for transformer winding and insulation wrapping.
Surface quality requirements include:
Smooth and bright surface
No serious scratches
No cracks or peeling
No heavy oxidation
No visible oil stain
No surface contamination affecting insulation
Suitable for insulation paper or insulation film wrapping
Low Burr Edge for Transformer Winding
The edge condition of copper strip is very important for transformer winding. Burrs or sharp edges may damage insulation paper, insulation film or other insulating materials during winding.
We can provide different edge options:

Edge Type	Description
Slit Edge	Standard edge after precision slitting
Deburred Edge	Reduced burrs for safer winding
Round Edge	Smooth rounded edge for better insulation protection
Customized Edge	Produced according to customer technical requirements

For transformer winding applications, deburred edge or round edge is recommended when higher insulation protection is required.

Quality Control for C1100 Transformer Copper Strip

We carry out strict quality inspection before shipment to ensure the C1100 copper strip meets

transformer winding requirements.
Main inspection items include:
Copper grade inspection
Chemical composition check
Copper content verification
Electrical conductivity test
Electrical resistivity test
Thickness tolerance inspection
Width tolerance inspection
Surface quality inspection
Edge burr inspection
Tensile strength test
Elongation test
Temper inspection
Coil shape inspection
Packaging inspection
Material test certificate can be provided according to customer requirements.

Packaging and Delivery

C1100 copper strip is carefully packed to prevent oxidation, moisture, deformation and surface damage during transportation.
Packaging options include:
Anti-oxidation paper wrapping
Plastic film protection
Moisture-proof packaging
Edge protection
Wooden pallet
Wooden case
Export seaworthy package
Customized label and shipping mark
We can also pack according to customer’s specific requirements.