

Copper

Typical Applications

- Connectors
- Transformers
- General electronics
- Busbars
- Motor components
- Building fascias
- Heatsinks
- Cable strips

Product Description

C101 copper is commonly used in a wide variety of engineering applications. This alloy is normally produced as HDHC (hard drawn, high conductivity) and offers high ductility and impact strength which makes it a versatile and useful material. With high thermal conductivity C101 is a popular choice for all types of electrical components and conductors.

Key features:

- High ductility and material strength
- High conductivity
- Good to excellent corrosion resistance in most environments
- Excellent for soldering

Related material specifications

- C11000 ETP
- BS1433
- BS13601 CW004A
- Cu-ETP
- DIN 2.0060

Availability

Round bar, flat bar, square bar and sheet.

Chemical Composition (weight %)

Weight (%)	Cu	Others	
Min	Bal		
Max	Bal	0.10	

Mechanical Properties

Tensile Strength (MPa)	200-400
Proof Stress 0.2% (MPa)	50-340
Elongation A5 (%)	5-50
Hardness VPN	40-120

Physical Properties

Density	8.92 g/cm ³
Melting Point	1083 °C
Modulus of Elasticity	117 GPa
Electrical Resistivity	0.0171x10 ⁻⁶ Ω.m
Thermal Conductivity	391.1 W/m.K
Thermal Expansion	16.9 x10 ⁻⁶ /K

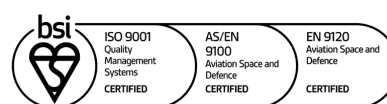
Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

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Quality & Testing:



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