#### Copper



## **Typical Applications**

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

Weight (%)

Min

Max

# **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.

Others

0.10

Chemical Composition (weight %)

Cu

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### Key features:

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

## **Related material specifications**

• BS1433

- C11000 ETP
- BS13601 CW004A

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- DIN 2.0060
- V004A Cu-ETP

#### Availability

Round bar, flat bar, square bar and sheet.

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

#### **Physical Properties**

8.92 g/cm <sup>3</sup> 1083 °C 117 GPa 0.0171x10 <sup>-6</sup> Ω.m 391.1 W/m.K
16.9 x10 <sup>-6</sup> /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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Smiths Belfast 02895 908 897	Smiths Leeds	0113 307 5167		· · · · · · · · · · · · · · · · · · ·
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