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 ³ 1083 °C 117 GPa 0.0171x10 ⁻⁶ Ω.m 391.1 W/m.K
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.

UK Service Centres:	Quality & Testing:			
Smiths Belfast 02895 908 897	Smiths Leeds	0113 307 5167		· · · · · · · · · · · · · · · · · · ·
Smiths Biggleswade 01767 604 704	Smiths Manchester	0161 794 8650		<u> </u>
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