### Free Machining Oxygen Free Copper



## **Typical Applications**

- Circuit breakers
- Electrical instruments
- Vacuum capacitors
- Magnetrons
   Electrical cont
- Electrical components at cryogenic temperatures
- Anodes
- Semi-conductors
- Transformers

### **Product Description**

As one of the purest copper on the market, C110 copper also has the highest thermal and electrical conductivity values. Oxygen content is restricted to maximise hydrogen embrittlement resistance. The metal has excellent joining and formability qualities, especially cold formability which is excellent.

### **Key features:**

- Very high purity
- Free from hydrogen embrittlement
- Excellent joining qualities
- Excellent formability
- Highest conductivity values

# **Related material specifications**

- C10100 OFE
- BS1433 C110
- BS3839
  BS13604
- BS13604 CW009ACu-OFE
- Cu-C2

#### Availability

Bar

Joining Methods	
Soldering	Excellent
Brazing	Excellent
Oxy-acetylene welding	Good
Gas-shielded arc welding	Excellent
Resistance welding: Spot & Seam	Not recommended
Butt	Good

Chen	nical C	al Composition (weight %)			
	Cu	Р	S	Pb	Others
Min	99.99				
Max		0.0003	0.002	0.001	0.005

# **Physical Properties**

8.94 g/cm<sup>3</sup> 1083 °C 118000 Kg/mm2 0.017 microhm m 399 W/m°K 17.3 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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