

🔞 EXPERTISE 🍈 COLLABORATION 🚳 INTEGRITY

Copper Alloys

CW114C (C111) Bar

Datasheet Updated 05 August 2021

RANGE	
Product Form	Size Range
Round Bar (Hard)	1/2" - 1"

SPECIFICATIONS	
Commercial	C111
EN	CW114C

A free machining sulphur copper with a machinability rating of approximately 80%.

CHEMICAL COMPOSITION	
Element	% Present
Sulphur (S)	0.20 - 0.70
Copper (Cu)	Balance

ALLOY DESIGNATIONS

- BS2874 C111
- C14700
- BS EN12164 CW114C
- CuSP

SUPPLIED FORMS

• Bar

APPLICATIONS

- Gas valve nozzles
- Cable glands & fasteners
- Circuit breaker terminals
- Electrical contacts
- Clamps

CHARACTERISTICS

- Excellent electrical conductivity
- Retains high levels of thermal conductivity
- Free machinability
- Freedom from hydrogen embrittlement
- Very good thermal conductivity
- High corrosion resistance
- Cost effective material since it can be machined at very high speeds without excessive tooling wear
- Higher machining speeds when compared with pure copper (up to 4 times quicker)

MECHANICAL PROPERTIES		
Property	Value	
Tensile Strength	250-360 N/mm ²	
Elongation A	7-2 %	
Hardness Vickers	65-130 HV	

DISCLAIMER

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