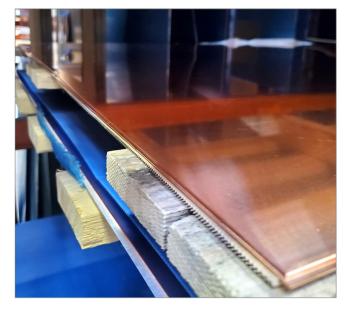


C103 (CW008A)

COPPER ALLOY

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Key Features

- Outstanding thermal conductivity
- Excellent electrical conductivity
- Excellent formability
- Highest electrical conductivity (commercially pure)

Chemical Composition (weight, %)

	Cu	Pb	Bi	Impurities
Min.	99.95			
Max.		0.005	0.0005	0.03

^{*} Properties as per BS EN 13601

Physical Properties

Melting Point	1083 °C
Density	8.9 g/cm ³
Specific Heat	385J/Kg °K
Thermal conductivity (RT)	393W/m°K
Thermal expansion coefficient (20-200°C)	17.3 x10 ⁻⁶
Electrical conductivity	100-101.5% IACS
Electrical Resistivity	$0.01724~\Omega~mm^2/m$

Product Overview

Offering outstanding thermal conductivity and high electrical conductivity, C103 (CW008A) copper is not susceptible to hydrogen embrittlement when heated in a reduced atmosphere.

C103 copper has the highest electrical conductivity of any commercially pure copper on the market (greater than 100% IACS). The alloy offers dimensional stability in hydrogen atmospheres which could feature in specific engineering applications. C103 also provides excellent joining capabilities

Availability:

■ Bar & Sheet

Applications

- Electronic instruments
- Large generators, rotor conductors
- Switchgear, vacuum engineering
- Transformers & motors

Material Specifications:

- BS2874 / BS1433: C103
- C10200
- BS EN13601:CW008A
- Cu-OF

Other Properties

Poor
Excellent
Excellent
Excellent
Excellent
Fair
Good



Thames Stockholders

Unit 5W. Woodall Road, Redburn Industrial Estate Ponders End, Enfield, Middlesex EN3 4LQ

Tel: +44 (0)20 8805 3282









sales@thamesstock.com



www.thamesstock.com