

Copper (Pure)

CW004A (C101) Bar & Sheet

Datasheet Updated
12 December 2023

RANGE

Product Form	Imperial Sizes		Metric Sizes	
	From	To	From	To
Round Bar HDHC	1/4"	4"	10mm	50mm
Flat Bar HDHC	1/2" x 1/8"	6" x 1/2"	20mm x 5mm	200mm x 10mm
Sheet HH- 2m x 1m	-	-	0.9mm	4.0mm
Sheet HH - 1.2m x 0.6m	-	-	1.6mm	2.0mm
Sheet HH - 4' x 2'	20 swg	10swg	-	-

SPECIFICATIONS

Commercial
EN

C101
CW004A

High conductivity pure copper.

CHEMICAL COMPOSITION

EN 1652:EN13601
CW004A

Element	% Present
Copper (Cu)	99.90 - 0.00
Others (Total)	0.00 - 0.10

ALLOY DESIGNATIONS

C101/CW004A HC Copper corresponds to the following designations **but may not be a direct equivalent**:

- UNS C11000
- ISO Cu-ETP

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SUPPLIED FORMS

- Bar
- Sheet
- Plate

APPLICATIONS

- General engineering
- Cables
- Electrical conductors, contacts & terminals
- Busbars
- Motor and transformer components
- Automotive and industrial radiators
- Domestic appliances
- Cold formed components
- Architectural metalwork
- Chemical process equipment
- Vats, kettles and pans

CHARACTERISTICS

- Very High electrical conductivity
- Excellent formability
- Very good thermal conductivity
- Excellent joining characteristics
- High ductility and impact strength

MECHANICAL PROPERTIES

EN 165

Sheet 0.2mm to 15mm Thick

Property	Value
Proof Stress	50-340 MPa
Tensile Strength	200-360 MPa
Elongation A50 mm	50-5 %
Hardness Vickers	40 to 110 HV

DISCLAIMER

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