

## Copper Alloys

## CW024A (C106) Sheet & Tube

Datasheet Updated  
05 August 2021

### RANGE

Product Form	Imperial Sizes	Metric Sizes
Sheet HH 2m x 1m	-	0.55mm - 6.0mm
Sheet HH 2.5m x 1.25m	-	1.2mm - 10.0mm
Sheet HH 4' x 2'	24 swg - 10 swg, 3/16"	-
Tube	1/4" OD - 2 1/2" OD	-

### SPECIFICATIONS

Commercial	C106
EN	CW024A

A phosphorous deoxidised non-arsenical copper that is 99.9% pure.

### CHEMICAL COMPOSITION

EN 1652  
CW024A

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

### ALLOY DESIGNATIONS

C106/CW024A copper corresponds to the following designations **but may not be a direct equivalent**:

- UNS C12200
- ISO Cu-DHP

### SUPPLIED FORMS

- Tube
- Sheet
- Plate

### APPLICATIONS

- Refrigeration plant
- Gutters and roofing
- Gas plants
- Hydraulic, air and oil lines
- Air conditioning and refrigeration
- Heater units and burners tubes consumer
- Plumbing pipe and fittings
- Chemical pipe work
- Marine and general engineering fasteners
- Water and gas installations and tubings
- Architectural metalwork
- Masonry fixings

### CHARACTERISTICS

- Very good electrical and thermal conductivity values
- Non-magnetic & spark resistant
- Good corrosion resistance
- Excellent formability
- Excellent joining properties
- Ideal for plating and polishing
- Not susceptible to hydrogen embrittlement

## MECHANICAL PROPERTIES

EN 1652

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

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon. Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources. Material supplied by the Company may vary significantly from this data but will conform to all relevant and applicable standards. As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied. Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.