







# **Copper Alloys**

# **DEFSTAN 02-837 (C106)**

**Datasheet Updated** 05 August 2021

# **SPECIFICATIONS**

Commercial C106 **DEFSTAN 02-**EN 837

Defence Standard phosphorus deoxidised copper.

# **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
- Gutters and roofing
- Gas plants
- Hydraulic, air and oil lines
- Air Conditioning and refrigeration
- Heater units and burners tubes
- Plumbing pipe and fittings

# **CHARACTERISTICS**

- Good thermal conductivity
- Non-magnetic & spark resistant
- Good electrical conductivity
- Good corrosion resistance
- Outstanding formability
- Excellent joining properties
- Ideal for plating and polishing

### **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.

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