Technical Datasheet



Phosphorus Deoxidised Non Arsenical Copper

Service. Quality. Value.

Typical Applications

- Connectors
- Transformers
- General electronics
- Busbars
- Motor components
- **Building fascias**
- Heatsinks
- Cable strips

Product Description

C106 is a phosphorus deoxidised non-arsenical copper. This is the preferred grade for non-electrical applications such as for fasteners, general engineering and construction. The metal is easily brazed or welded and has excellent formability. C106 can be used for plating and polishing and also has aesthetic value. It is used in architectural applications.

Chemical Composition (weight %) **Others** Weight (%) Cu Min Bal Max Bal 0.10

Key features:

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

Related material specifications

- BS2874: C106
- BS EN 13601: CW024A
- C12200
- Cu-DHP

Availability

Bar and sheet

200-400 50-340 50-5 40-120

Physical Properties

Density 8.92 g/cm³ **Melting Point** 1083 °C **Modulus of Elasticity** 117 GPa $0.0203 \times 10^{-6} \Omega.m$ **Electrical Resistivity Thermal Conductivity** 391.2 W/m.K **Thermal Expansion** 16.9 x10⁻⁶/K

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centres:

02895 908 897 0113 307 5167 Smiths Belfast Smiths Leeds Smiths Biggleswade 01767 604 704 Smiths Manchester 0161 794 8650 Smiths Birmingham **0121 728 4940** Smiths Norwich 01603 789 878 Smiths Bristol 0117 971 2800 Smiths Nottingham **0115 925 4801** Smiths Chelmsford 01245 466 664 Smiths Redruth 01209 315 512 Smiths Gateshead 0191 469 5428 Smiths Verwood 01202 824 347 Main Office Smiths Horsham 01403 261 981 0845 527 3331

Quality & Testing:





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