C17200 Beryllium Copper

Smiths Advanced Metals

High Strength & Stiffness

C17200 high strength beryllium copper.



C17200 beryllium copper (CW101C) is suitable for applications where high strength and stiffness are required with good conductivity.

Once age hardened, its tensile strength exceeds 1280 MPa. The alloy offers good to excellent corrosion resistance, excellent cold workability and good hot formability, and suits blanking, forming, bending, turning, drilling and tapping.

It is available mill hardened, ready to machine at full strength, or in heat-treatable tempers that can be formed first and then age hardened. Beryllium is toxic as dust or fume, so appropriate ventilation is required during machining, grinding and welding.

We stock C17200 beryllium copper in a broad range of sizes and shapes, mill hardened and heat-treatable.

Key Applications

- **Electrical connectors**
- **Bearings**
- **Welding electrodes**
- **Corrosion-resistant components**

Benefits

- **High strength & stiffness**
- **Good electrical conductivity**
- **Good to excellent corrosion resistance**

Grades / Specifications

- **UNS C17200 / CW101C**
- **ASTM B196**
- **ASTM B194**

* Chemical Composition (weight %)

	Be	Ni + Co	Ni + Co + Fe	Al	Si	Cu
min.	1.80	0.20				Rem
max.	2.00		0.60	0.20	0.20	

* As per ASTM B196

Metallurgical Support

Our UKAS Accredited Testing Laboratory is unique to the UK stockholding sector, and we provide comprehensive metallurgical support, including an extensive range of testing services.

Processing

We supply products in both metric and imperial sizes and process your beryllium copper in-house. We stock materials in closer incremental sizes, which results in the supply of engineering materials where the need to machine the raw material down is not required.

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bsi ISO 9001 Quality Management Systems CERTIFIED
AS/EN 9100 Aviation Space and Defence CERTIFIED
EN 9120 Aviation Space and Defence CERTIFIED
UKAS TESTING 1930

All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.

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