

CW101C (UNS C17200)

Product Datasheet



Beryllium Copper

Service. Quality. Value.

Excellent Formability

CW101C (UNS C17200) is a beryllium-copper alloy available in mill hardened and heat-treatable tempers.

The product is appropriate for use in applications where a combination of high strength and stiffness, with good conductivity, is required. With good to excellent corrosion resistance, CW101C offers excellent cold workability and good hot formability. The tensile strength of this beryllium copper product exceeds 1280 MPa.

Fabrication methods include blanking, forming and bending, turning, drilling and tapping. The toxicity of beryllium determines the need for appropriate ventilation during specific processes such as machining, grinding and welding. Electrical conductivity of the alloy is good.



Key Features

- High strength
- Excellent cold workability
- Good hot formability
- Good electrical conductivity

Applications

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

Chemical Composition (weight %)

Cu	Be	Co	
97.9	1.9	0.20	

Mechanical Properties

Tensile Strength Ultimate	Yield Strength	Elongation at break	Modulus of Elasticity	Hardness Rockwell B
1280 - 1480 MPa	965 - 1205 MPa	15 - 30%	125 - 130 GPa	80.0 - 85.0

UK Service Centres:

Smiths Belfast 02895 908 897
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Smiths Birmingham 0121 728 4940
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Quality & Testing:



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