

OXYGEN-FREE COPPER ROD

Product material requirements and supply characteristics

COPPER DESIGNATION	STANDARD
C10200	AS/NZS 1574:1996

SCOPE

This specification sets out the material requirements for upcast oxygen-free copper rod used by Global Copper Conductors for conform extrusion

COPPER MATERIAL SPECIFICATION

Copper shall comply with Oxygen-free Electronic Copper designation C10200, as specified in AS/NZS 1574:1996. Overall copper purity shall be no less than 99.99%.

ELECTRICAL PROPERTIES

Electrical conductivity: greater than 100.0% IACS, measured in accordance with ASTM B193.

Volume resistivity: no greater than 17.241 nΩ·m at 20 °C, measured in accordance with ASTM B193.

PRODUCT SPECIFICATION AND TOLERANCES

- The conductor surface as-cast shall be dry, clean, bright and unoxidised. It shall have no porosity, holes or other similarly harmful defects.
- Ultimate Tensile Strength (UTS) shall be a maximum of 250 MPa when measured in accordance with AS1391.
- Each batch of conductor is provided with a Certificate of Compliance, as required.

DOCUMENT CONTROL

Document: MS-CR | Material Specification - Oxygen-Free Copper Rod

Prepared for Global Copper Conductors product and customer documentation.