

Material type

Metal

Material name

Copper C101 | CU OFE

Alternative names

OFHC

Process compatibility

CNC machining**Mechanical properties**

Ultimate tensile strength	220 - 280 MPa
Yield strength	60 - 240 MPa
Young's modulus (modulus of elasticity)	125 - 135 GPa
Elongation at break	9 - 30 %

Thermal properties

Maximum service temperature	77 - 87 °C
Thermal expansion coefficient	16.8 - 17.3 10 ⁻⁶ /°C
Thermal conductivity	390 - 398 W/(m·°C)

Post treatments

Anodizing compatibility	Not suitable
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Physical properties

Magnetism	Semi-magnetic
Weldability	Poor

Electrical properties

Electrical resistivity	1.7 - 1.74 μΩ*cm
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Common applications

Electronics
Automotive
Domestic Appliances
Cold formed components

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