



Copper single crystal :

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Single crystal copper is widely used in matrix metals, alloy thin film materials and biomaterials. Copper is a reddish metal, it is soft and ductile, with high conductivity, is an ideal material for making wires, which is probably its most important commercial application.

Copper, which does not react with air and water, is often used as a roof material for some public buildings, gradually weathering into an attractive copper-aluminum shiny copper carbonate. Copper was an important metal used for the first time in history, especially bronze alloys. Currently, it is also used in coins.

Product Parameter:

Main performance parameters	
Molecular formula	Cu
Crystalline system	Face center cubic lattice, cubic crystal system
Lattice constants	a=3.607Å
Density	Dx=8.989 (g/cm ³) ;Dm=8.95 (g/cm ³)
Melting point	1083°C
Growing directions	Crucible descent method (Bridgman method)
Purity	> 4N
Conventional crystal orientation	<100>;<110>;<111>.
Crystallographic tolerance	±0.5°
Dimensions and tolerances	103,105,1010,1515,2015,2020, or customized
Thickness and tolerance	0.5mm , 1.0mm
Polishing	Single or double-sided
Surface roughness	Ra < 5 nm (5×5μm)
Package	100 clean bag, 1000 ultra-clean room, easy oxidation, vacuum moisture-proof preservation