



Nickel single crystal :

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Single crystal nickel is widely used in matrix metals, alloy thin film materials, and biomaterials.

Nickel is a silver white, shiny, ductile, and ductile metal. It is corrosion-resistant, but soluble in acids (except for nitrite) and insoluble in alkalis.

Commonly used in alloys, especially stainless steel, coins, metal electroplating, and catalysts.

**Product Parameter:**

Main performance parameters	
Molecular formula	Ni
Crystalline system	cubic system
Lattice constants	a=3.5238 A
Density	D=8.9 ( g/cm <sup>3</sup> )
Melting point	1453 °C
Growing directions	Crucible descent method (Bridgman method)
Purity	> 4N
Thermal expansion coefficient	13.3 x 10 <sup>-6</sup> /K
Conventional crystal orientation	<100>;<110>;<111>
Crystallographic tolerance	± 1° or 2°
Dimensions and tolerances	5x5,105,1010,1515,2015,2020, or according to the customer's request
Thickness and tolerance	0.5mm , 1.0mm
Polishing	Single or double-sides
Surface roughness	Ra < 10 nm ( 5×5μm )
Package	100 clean bag, 1000 ultra-clean room, easy oxidation, vacuum