

99.95% High Purity Niobium Rod for Cutting Tools

This 99.95% pure niobium rod offers excellent superconductivity and corrosion resistance. It is manufactured to ASTM standards and suitable for various applications.



ADDITIONAL IMAGES



Product Overview



Solid niobium bars featuring high purity and excellent surface finish for industrial use.

High-Performance Niobium Rods

These 99.95% high-purity niobium rods are engineered for demanding industrial applications including superconductivity, aerospace, and atomic energy. Characterized by an exceptional melting point and superior corrosion resistance, these solid bars offer the durability and precision required for high-end cutting tools and chemical processing equipment. Manufactured to ASTM B392 and B393 standards, they provide reliable performance in extreme environments.

Material Properties

Niobium Purity

99.95 %

Minimum Purity

Density

8.57 g/cm³

Key Properties

Superconductivity, Corrosion Resistance, Wear Resistance, High Melting Point, Ductility, Paramagnetism

Chemical Composition

Maximum Impurity Levels (Nb-1 Grade)

Element	Max %
Carbon (C)	0.02
Hydrogen (H)	0.0015
Oxygen (O)	0.05
Nitrogen (N)	0.03
Iron (Fe)	0.005
Silicon (Si)	0.005
Nickel (Ni)	0.002
Tungsten (W)	0.005
Molybdenum (Mo)	0.005
Copper (Cu)	0.003
Tantalum (Ta)	0.1
Titanium (Ti)	0.005

Dimensions & Standards

Manufacturing Standards

ASTM B392 • ASTM B393-09

Ingot Size Range

- Diameter: 55mm to 180mm
- Length: Up to 1400mm

Standard Bar Sizes

- (14~20) x (14~20) x 300mm
- 20 x 20 x (300~450)mm

Surface Condition

Black or bright

Applications

Primary Industries

- Steel Industry
- Superconductor Materials
- Aerospace Engineering
- Atomic Energy Industry
- Cutting Tool Manufacturing

Packaging and logistics



Professional packaging and global express delivery options including DHL, FedEx, and TNT.

Available Couriers

TNT, FedEx, DHL