Niobium Wire Nb1 RO4200 for Superconductivity Applications

Niobium wire Nb1 RO4200 is designed for superconductivity applications. This wire is ideal for anode leads and other applications requiring high-purity material.

ADDITIONAL IMAGES

Product Overview

High-purity Nb1 Niobium wire supplied in coils for easy handling.

High-Purity Niobium Wire

This Nb1 grade Niobium wire (RO4200) is engineered for high-performance applications, including superconductivity research and anode lead manufacturing. It features exceptional corrosion and wear resistance combined with a high melting point and inherent ductility. Manufactured to adhere to ASTM B392 standards, this wire provides the reliability required for sensitive electrochemical and industrial systems.

Technical Specifications

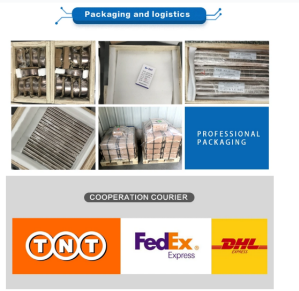
Purity (Nb)	e99.95%
Standard	ASTM B392
Density	8.57 g/cm3
Surface Finish	Black, Alkali Wash

Key Properties

Material Characteristics

- Superconductivity
- Corrosion resistance
- Wear resistance
- High melting point
- Ductility
- Paramagnetism

Application & Logistics



Secure professional packaging ensures material integrity during international transit.

Typical Applications

Superconductivity • High pressure sodium lamps • Electrolytic capacitor anode lead

Chemical Composition

Chemical Impurity Limits (Nb-1)

Element	Max %
Carbon (C)	0.020
Hydrogen (H)	0.0015
Oxygen (O)	0.050
Nitrogen (N)	0.030
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)	0.10
Titanium (Ti)	0.005