

99.95% Pure Tantalum Round Rod for Electrical Engineering

This is a 99.95% pure tantalum rod bar. It features high melting point, high strength, and good oxidation resistance.



ADDITIONAL IMAGES



Product Overview

High-Purity Tantalum Rods for Industrial Excellence

These 99.95% pure tantalum rods are engineered for the most demanding environments, offering an exceptional melting point and superior oxidation resistance. Manufactured to ASTM B365 standards, the material provides outstanding corrosion resistance and high structural strength. They are ideal for critical applications in the electronics, chemical processing, and vacuum furnace industries.

Key Performance Metrics

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99.95 %
Minimum Purity

16.68 g/cm³
Density

2996 °C
High Melting Point

Technical Specifications



Standard
ASTM B365

Material Grade RO5200 / Ta-1

Surface Finish Bright

Material Properties High Strength, Corrosion Resistance, Oxidation Resistance, Biocompatibility, Acid Resistance

Dimensions

Ingot Dimensions

Type	Diameter (mm)	Length (mm)
Ingot	55 - 180	< 1400
Bar (Round)	25 - 35	600 - 900
Bar (Square)	12 - 18	100 - 400

Chemical Composition

Maximum Impurity Levels (%)

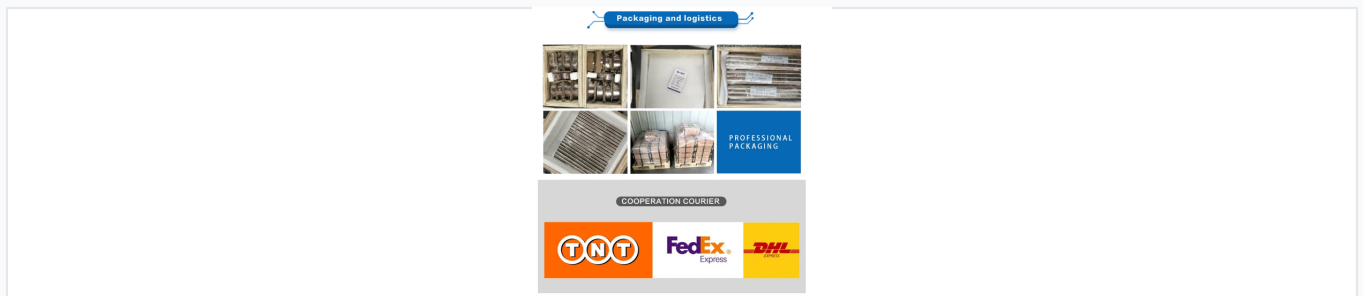
Element	Max %
C	0.004
H	0.0015
O	0.015
N	0.005
Fe	0.005
Si	0.005
Ni	0.002
W	0.005
Mo	0.002
Nb	0.005
Ti	0.001

Applications

Primary Applications

- Heating components for vacuum high-temperature furnaces
- Tantalum electrolytic capacitor anode leads
- Chemical reaction equipment and corrosion-resistant fasteners
- Vacuum electron cathode emission sources
- Ion sputtering and spraying materials
- Cathodic protection systems for steel structures
- Medical implants and devices

Logistics



Available Express Carriers

TNT, FedEx, DHL