



# 宝鸡难熔金属开发公司

Bao Ji Refractory Metal Developer Co.,Ltd

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## NIOBIUM PRODUCTS

### ❖ Products Properties:

- High melting point—2468℃
- Low vapor pressure
- Excellent chemical stability
- Excellent resistance to electrochemical corrosion
- High boiling Point—4742℃
- Good cold processability
- High dielectric constant

### ❖ Chemical Composition:

Grade	Nb	Chemistry %												
		Impurities max												
		Zr	Ti	C	N	O	H	Ta	Fe	Si	W	Ni	Mo	Cr
Nb1	Remainder	0.02	0.002	0.01	0.015	0.015	0.001	0.10	0.005	0.005	0.03	0.005	0.010	0.002
Nb2	Remainder	0.02	0.005	0.02	0.05	0.025	0.005	0.25	0.03	0.02	0.05	0.01	0.050	0.01

### ❖ Specification:

Description	Diameter(mm)	Length(mm)
Wire	Φ0.10~Φ3.200	—
Rod	Φ1.00~Φ12.00	50~2000
Bar	Φ12.00~Φ20.00	50~2000
	Φ20.00~Φ30.00	50~1200
	Φ30.00~Φ50.00	50~1000
Tube	Φ2.000~Φ100.00	<1300

Note:All the products can be supplied in according to customer's requirement.

## ● PURE NIOBIUM——Bar/Rod/Wire

### ✧ Tolerance:

Diameter, inch (mm)	Tolerance, +/-inch (mm)
0.020~0.030 (0.51~0.76)	0.00075 (0.019)
0.030~0.060(0.76~1.52)	0.001 (0.025)
0.060~0.090(1.52~2.29)	0.0015 (0.038)
0.090~0.125(2.29~3.18)	0.002(0.051)
0.125~0.187 (3.18~4.75)	0.003 (0.076)
0.187~0.375(4.75~9.53)	0.004(0.102)
0.375~0.500 (9.53~12.7)	0.005(0.127)
0.500~0.625 (12.7~15.9)	0.007(0.178)
0.625~0.750 (15.9~19.1)	0.008(0.203)
0.750~1.000(19.1~25.4)	0.010(0.254)
1.000~1.500(25.4~38.1)	0.015(0.381)
1.500~2.000(38.1~50.8)	0.020(0.508)
2.000~2.500(38.10~50.80)	0.030(0.762)

Note:Special demands on tolerance available.

### ✧ Products show:



## ● PURE NIOBIUM——Tube

### ✧ Tolerance:

Outside diameter, inch (mm)	OD tolerance, inch(mm), +/-	ID tolerance, inch(mm), +/-	Permissible variation in wall thickness, %, +/-
$\geq 0.187 \sim 0.625 (4.7-15.9)$	0.004 (0.010)	0.004 (0.010)	10
$\geq 0.625 \sim 1.000 (15.9-25.4)$	0.005 (0.13)	0.005 (0.13)	10
$\geq 1.000 \sim 2.000 (25.4-50.8)$	0.0075 (0.19)	0.0075 (0.19)	10
$\geq 2.000 \sim 3.000 (50.8-76.2)$	0.010 (0.25)	0.010 (0.25)	10
$\geq 3.000 \sim 4.000 (76.2-101.6)$	0.0125 (0.32)	0.0125 (0.32)	10

Note: Special demands on tolerance available.

### ✧ Products show:

