



**CABOT**  
creating what matters

## Product Information

### Niobium Metallurgical Products

Niobium (Nb)  
Niobium 1% Zirconium (Nb1Zr) (KBI-1®)  
Niobium 7.5% Tantalum (Nb7.5 Ta)®  
Niobium 47% Titanium (Nb47Ti)®  
Sputtering Grade Niobium



### Available Niobium Products

Form	Thickness, Diameter, Wall	Width, Length
Foil	0.003 in. to 0.004 in.	6 in. max. width x coil length
Strip	0.005 in. to 0.019 in.	12 in. width x coil length Wider width available upon request.
Sheet	0.020 in. to 0.100 in.	36 in. width x 72 in. length, typical
Plate	0.125 in. to 2.000 in.	36 in. width x 72 in. length
Wire	0.010 in. to 0.124 in.	Coil (straight lengths supplied on request from 0.040 in. to 0.124 in., not to exceed 144 in.)
Rod	0.125 in to 0.625 in. dia. 0.626 in to 3.000 in. dia.	Coil or straight lengths not to exceed 144 in. Lengths dependent on weight.
Billet	3.750 in. dia. typical	Length dependent on weight.
Tube	0.75 in. OD x 0.065 in. wall seamless	Other sizes by request
Welded Tube	By request	By request

Custom fabrications quoted upon request.

*Conversions:* Dimensions to weight in pounds = (density lb/in<sup>3</sup>)(in.<sup>3</sup>)  
Dimensions to weight in Kg = (density gm/cm<sup>3</sup>)(.001 x cm<sup>3</sup>)  
Cubic inches to cm<sup>3</sup> = (in.<sup>3</sup>)(16.39)

**Note:**

The above size limitations are based on standard mill practices. Requirements for sizes outside the above parameters may be referred to Customer Service.

(continued on back)

## Niobium Metallurgical Products

### Atomic and Crystallographic Properties of Niobium

Atomic and Crystallographic Properties of Niobium	
Atomic Number	41
Atomic Weight	92.91
Atomic Volume	10.83 cm <sup>3</sup> /g-atom
Lattice Type	Body centered cubic
Lattice Constant at 20° Centigrade (68° F), Å	3.294
Cross Section Thermal Neutrons (barns/atoms)	1.1

**Cabot Supermetals**

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