

CADUCEUS SOFTWARE SYSTEMS

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Tungsten has the highest melting point of the refractory metals, high density, and low coefficient of thermal expansion. It offers exceptionally high strength and good electrical resistivity at very high temperatures. Unalloyed Tungsten is very difficult to machine and fabricate. Eagle Alloys can furnish finished parts in this material in relatively quick turnaround times.

Tungsten Typical Applications

Filaments, vacuum furnaces, electrical contacts, glass-to-metal seals, supports, electrodes, cathodes and anodes, electronics, radiation shielding, medical devices, x-ray targets, ion implantation parts, windings and heating elements for electrical furnaces, sputtering targets, heat shields, heat bodies, tungsten boats and crucibles.

Tungsten is a metal with a wide range of uses. Tungsten Alloy has the highest melting point, lowest vapor pressure and highest tensile strength at temperatures above 1650 degrees Celsius of all metals. It can only be attacked slightly by most mineral acids. It's coefficient of thermal expansion makes it a common choice for glass to metal sealing applications. Tungsten also has low emmissivity.

Physical Properties

Atomic weight	183.85
Density	19.3 g/cc
Melting Point	3695 k 3410°C, 6191°F
Boiling Point	5828K, 5900°C, 10031°F

Applications

Some Common Applications for Tungsten are:

- Television and light bulb filament
- Electrodes
- Furnace applications
- Electronics
- Nuclear applications
- Aerospace applications
- Glass to metal sealing
- Electrical Contacts
- Supports

Tungsten is extremely difficult to work with. It is difficult to turn and mill. Forming must be done at extremely high temperatures. Welding and riveting are not recommended. E.D.M. is the most practical way to machine Tungsten.

Tungsten and Molybdenum Rods



Overview

Molybdenum Sheets

Molybdenum Rods

Copper Tungsten Rods

Tungsten Sheets

Tungsten Rods

Miscellaneous Items

Souvenirs

Shipping and Handling

99.95% Purity Tungsten Rods for SALE

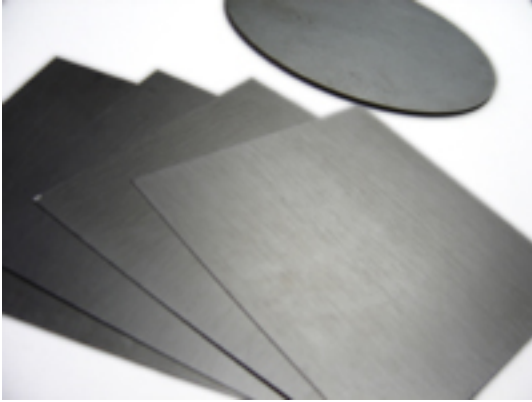


We stock tungsten rods 12" and 36" in length with different diameters. The surface of the tungsten rods can be either regular or polished.

International buyers - please contact us for shipping quote before placing order!
We try our best to keep every product in stock. However, some items may require a lead time of 1 month due to unexpected variation in demand.

Product Description	Surface	Diameter Tolerance (mm/inch)	Unit Price
Tungsten Rod 0.1875 "(D)x36"	Unpolished	0.15/0.0059	\$62.68
Tungsten Rod 0.1875 "(D)x36"(L)	Polished	0.05/0.0020	\$84.62
Tungsten Rod 0.25 "(D)x12"(L)	Unpolished	0.15/0.0059	\$39.94
Tungsten Rod 0.25 "(D)x12"(L)	Polished	0.15/0.0059	\$64.50
Tungsten Rod 0.25 "(D)x36"(L)	Unpolished	0.05/0.0020	\$124.68
Tungsten Rod 0.25 "(D)x36"(L)	Polished	0.05/0.0020	\$156.39
Tungsten Rod 0.375 "(D)x12"(L)	Unpolished	0.05/0.0020	\$67.80
Tungsten Rod 0.375 "(D)x12"(L)	Polished	0.05/0.0020	\$116.68
Tungsten Rod 0.375 "(D)x36"(L)	Unpolished	0.2/0.0079	\$252.35
Tungsten Rod 0.375 "(D)x36"(L)	Polished	0.05/0.0020	\$303.07
Tungsten Rod 0.5 "(D)x12"(L)	Unpolished	0.05/0.0020	\$128.80
Tungsten Rod 0.5 "(D)x12"(L)	Polished	0.05/0.0020	\$194.89
Tungsten Rod 0.5 "(D)x36"(L)	Unpolished	0.2/0.0079	\$438.93
Tungsten Rod 0.5 "(D)x36"(L)	Polished	0.05/0.0020	\$505.35
Tungsten Rod 0.625 "(D)x36"(L)	Unpolished	0.2/0.0079	\$661.14
Tungsten Rod 0.625 "(D)x36"(L)	Polished	0.05/0.0020	\$808.45
Tungsten Rod 1 "(D)x12"(L)	Unpolished	0.8/0.0315	\$562.93

99.95% Purity Tungsten Sheets for SALE



We stock 6"x6" tungsten sheets 0.012", 0.02" and 0.04" in thickness. The surface of the tungsten sheets is regular unpolished. Checkout is handled by Amazon. Customers can pay through **Amazon.com** or **directly with a credit card** (link is on the left side of the check-out page).

International buyers - please contact us for shipping quote before placing order!
We try our best to keep every product in stock. However, some items may require a lead time of 1 month due to unexpected variation in demand.

Product Description	Surface	Thickness Tolerance mm/inch	Unit Price
<u>Tungsten Sheet / Plate 6"x6"x0.012"</u>	Unpolished	0.03/0.0012	\$52.79
<u>Tungsten Sheet / Plate 6"x6"x0.02"</u>	Unpolished	0.05/0.0020	\$86.14
<u>Tungsten Sheet / Plate 6"x6"x0.04"</u>	Unpolished	0.08/0.0031	\$166.

99.95% Purity Molybdenum Rods for SALE

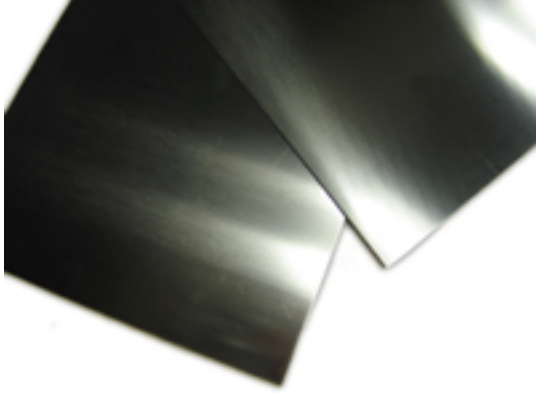


We stock molybdenum rods 12" and 36" in length with different diameters. The surface of the moly rods can be either regular or polished.

International buyers - please contact us for shipping quote before placing order!
We try our best to keep every product in stock. However, some items may require a lead time of 1 month due to unexpected variation in demand.

Product Description	Surface	Diameter Tolerance (mm/inch)	Unit Price
Molybdenum Rod 0.1875 "(D)x12"(L)	Unpolished	0.15/0.0059	\$20.14
Molybdenum Rod 0.1875 "(D)x12"(L)	Polished	0.06/0.0024	\$25.24
Molybdenum Rod 0.1875 "(D)x36"(L)	Unpolished	0.15/0.0059	\$54.00
Molybdenum Rod 0.1875 "(D)x36"(L)	Polished	0.06/0.0024	\$67.69
Molybdenum Rod 0.25 "(D)x12"(L)	Unpolished	0.15/0.0059	\$30.94
Molybdenum Rod 0.25 "(D)x12"(L)	Polished	0.06/0.0024	\$42.99
Molybdenum Rod 0.25 "(D)x36"(L)	Unpolished	0.15/0.0059	\$96.24
Molybdenum Rod 0.25 "(D)x36"(L)	Polished	0.06/0.0024	\$110.04
Molybdenum Rod 0.375 "(D)x12"(L)	Unpolished	0.2/0.0079	\$64.86
Molybdenum Rod 0.375 "(D)x12"(L)	Polished	0.06/0.0024	\$85.84
Molybdenum Rod 0.375 "(D)x36"(L)	Unpolished	0.2/0.0079	\$166.75
Molybdenum Rod 0.375 "(D)x36"(L)	Polished	0.06/0.0024	\$217.30
Molybdenum Rod 0.5 "(D)x12"(L)	Unpolished	0.2/0.0079	\$112.95
Molybdenum Rod 0.5 "(D)x12"(L)	Polished	0.06/0.0024	\$136.95
Molybdenum Rod 0.5 "(D)x36"(L)	Unpolished	0.2/0.0079	\$267.00
Molybdenum Rod 0.5 "(D)x36"(L)	Polished	0.06/0.0024	\$334.85
Molybdenum Rod 0.625 "(D)x36"(L)	Unpolished	0.5/0.0197	\$389.36
Molybdenum Rod 0.625 "(D)x36"(L)	Polished	0.06/0.0024	\$500.71
Molybdenum Rod 1 "(D)x12"(L)	Unpolished	0.8/0.0315	\$458.50
Molybdenum Rod 1 "(D)x12"(L)	Polished	0.06/0.0024	\$518.08

99.95% Purity Molybdenum Sheets for SALE



We stock 6"x6" and 12"x12" molybdenum sheets 0.012", 0.02" and 0.04" in thickness. The surface of the moly sheets is polished. Checkout is handled by PayPal. Customers can pay through **Amazon.com** or **directly with a credit card** (link is on the left side of the check-out page).

International buyers - please contact us for shipping quote before placing order!
We try our best to keep every product in stock. However, some items may require a lead time of 1 month due to unexpected variation in demand.

Product Description	Surface	Thickness Tolerance (mm/inch)	Unit Price
<u>Molybdenum Sheet / Plate 12"x12"x0.012"</u>	Polished	0.03/0.0012	\$118.55
<u>Molybdenum Sheet / Plate 12"x12"x0.02"</u>	Polished	0.04/0.0016	\$162.83
<u>Molybdenum Sheet / Plate 12"x12"x0.04"</u>	Polished	0.06/0.0024	\$340.50
<u>Molybdenum Sheet / Plate 6 "x6"x0.012"</u>	Polished	0.03/0.0012	\$28.64
<u>Molybdenum Sheet / Plate 6 "x6"x0.02"</u>	Polished	0.04/0.0016	\$44.28
<u>Molybdenum Sheet / Plate 6 "x6"x0.04"</u>	Polished	0.06/0.0024	\$95.45
Molybdenum Sheet / Plate 5.51"x3.54"x0.04"	Polished	0.06/0.0024	\$58.50

Copper Tungsten Rods for SALE



We stock Copper Tungsten Rods 8" and 12" in length with different diameters. The shape of the Copper Tungsten Rods can be round or hexagon. The copper tungsten round rod is ground to achieve the precise shape and size, meets American Welding Society RWMA Class 10 specifications, and has a precision tolerance. Copper tungsten provides high wear resistance, electrical and thermal conductivity, and corrosion resistance, can be widely used for EDM Welding, Electrical Resistance Welding and other electrode applications.

Product Description	Material	Unit Price
Copper Tungsten Round Rod 1/16"(D)x12"(L)	W70Cu	\$36.74
Copper Tungsten Round Rod 1/16"(D)x8"(L)	W70Cu	\$31.48
Copper Tungsten Round Rod 1/2"(D)x12"(L)	W70Cu	\$127.49
Copper Tungsten Round Rod 1/2"(D)x8"(L)	W70Cu	\$86.73
Copper Tungsten Round Rod 1/4"(D)x12"(L)	W70Cu	\$49.50
Copper Tungsten Round Rod 1/8"(D)x12"(L)	W70Cu	\$34.49
Copper Tungsten Round Rod 1/8"(D)x8"(L)	W70Cu	\$17.28
Copper Tungsten Round Rod 3/32"(D)x12"(L)	W70Cu	\$35.65
Copper Tungsten Round Rod 3/32"(D)x8"(L)	W70Cu	\$28.26
Copper Tungsten Round Rod 3/8"(D)x12"(L)	W70Cu	\$76.32
Copper Tungsten Round Rod 5/16"(D)x12"(L)	W70Cu	\$59.37
Copper Tungsten Round Rod 5/32"(D)x12"(L)	W70Cu	\$38.59
Copper Tungsten Round Rod 3/16"(D)x8"(L)	W70Cu	\$26.10
Copper Tungsten Round Rod 7/16"(D)x8"(L)	W70Cu	\$67.84
Copper Tungsten Round Rod 7/32"(D)x8"(L)	W70Cu	\$30.17
Copper Tungsten Hex Shape 1/2" Across the Flats and 12" Long	W70Cu	\$118.93