



*Focused on Today... A Clear Vision of Tomorrow*

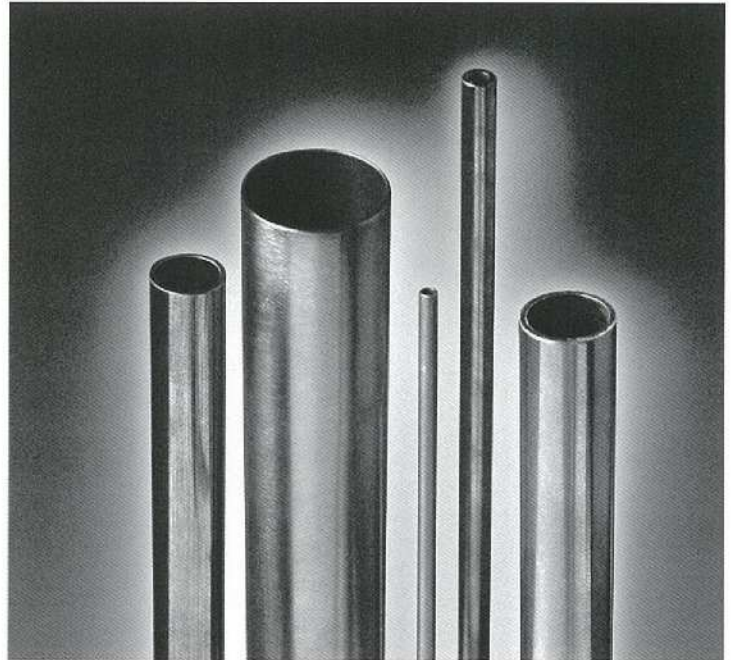
## Molybdenum Seamless Tubing

**Rhenium Alloys, Inc.** is a leading producer of high quality seamless molybdenum tubing used in various industries throughout the world. Molybdenum is a soft ductile, refractory metal suitable for applications requiring high strength and rigidity at temperatures up to 3,000 degrees F. The unique combination of metallurgical and refractory metals expertise along with our state of the art manufacturing facility allow us to provide a broad range of lengths and diameters. All tubing products have a ground finish and are available in both powder metal and low carbon arc cast forms.

**Molybdenum tubing** is a product well-suited for thermocouple sheaths and an excellent choice when elevated temperatures are a factor. A broad spectrum of applications may be found in the electrical, electronic, semiconductor and medical industries.

**Molybdenum-rhenium tubing** is available in three alloy compositions — 41.0%, 44.5% and 47.5% rhenium contained — and is well suited for electronics, nuclear and space applications. Few of molybdenum-rhenium tubing uses have acceptable substitutions.

The versatility of molybdenum in enhancing a variety of alloy properties has ensured it a significant role in contemporary industrial technology, which increasingly requires materials that are serviceable under high stress, expanded temperature ranges, and highly corrosive environments.



### Applications

- Thermocouple sheaths
- Semiconductor manufacture
- Electronic applications
- Mercury switch contacts
- A variety of other uses

### Features and Benefits

- Close Tolerances
- Wide Size Ranges
- Customized
- Thin Wall
- Stable at High Temperatures
- Quick delivery

# Drawn Seamless Tubing

## Molybdenum Tubing

### Standard Tubing

Available Composition:  
- Powder Metal  
(99.95% Pure Molybdenum)

O.D.	I.D.
(± 10% Tolerance)	
.020	.012
.025	.015
.030	.018
.035	.021
.040	.024
.050	.030
.060	.036
.062	.036
.070	.042
.075	.045
.080	.048
.090	.054
.110	.066
.125	.074
.140	.084
.156	.093
.170	.102
.175	.105
.187	.112
.200	.120
.218	.132
.225	.135
.250	.150
.312	.187
.340	.206
.375	.225
.406	.282

### Precision Tubing

Available Compositions:  
- Powder Metal (99.95% Pure Molybdenum)  
- Low Carbon ARC Cast  
(99.97% Pure Molybdenum)

O.D.	Tolerance	Wall	I.D.
		(± 10%)	
0.125	+0.002 -.000	0.015	0.095
0.187	+0.003 -.000	0.020	0.147
		0.030	0.127
0.250	+0.003 -.000	0.020	0.210
		0.030	0.190
		0.050	0.150
0.312	+0.003 -.000	0.030	0.252
0.375	+0.003 -.000	0.025	0.325
		0.040	0.295
0.500	+0.004 -.000	0.030	0.440
		0.040	0.420
		0.060	0.380
0.625	+0.004 -.000	0.050	0.525
0.750	+0.004 -.000	0.060	0.630
0.875	+0.004 -.000	0.060	0.755
1.000	+0.004 -.000	0.030	0.940

\* Measurements are in inches.

## Molybdenum-Rhenium Tubing

Please call for available sizes.



Rhenium Alloys, Inc.  
1329 Taylor Street  
P.O. Box 245  
Elyria, Ohio 44036-0245

Tel: (440) 365-7388  
Fax: (440) 366-9831  
Email: [rhenium@rhenium.com](mailto:rhenium@rhenium.com)  
[www.rhenium.com](http://www.rhenium.com)  
Toll free: 1-888-RHENIUM