

SEAMLESS **PROMOLY™** ALLOY TUBING

Cold Drawn Seamless **ProMoly™** Alloy Tubing is produced by Plymouth Tube Co. in grade 4130. Special shapes may be produced upon request, including Square OD & ID, shaped OD with Round ID, Triangular OD & ID, and tear drop shape. **ProMoly™** has a significantly higher tensile strength (yield and ultimate) compared to mild steel, which allows applications to use a thinner wall which enhances performance. **ProMoly™** is the high performance racing industry's choice for the advantages it has in welding, fabricating, and mild hardenability. All **ProMoly™** is produced to, MIL-T-6736 B (AMS-T-6736A), AMS-6371 and AMS-6360 standard.



ProMoly™ Size Range:

OD: 0.090" – 1.75" (2.286 mm – 44.45 mm)

Wall: 0.020" – .120" (0.508 mm – 3.05 mm)

Physical Conditions:

(A) Soft **(N)** Stress
 Anneal Relieved

ISO/TS16949:2002

Mechanical Properties

Condition and wall thickness	Tensile strength (min.)	Yield strength at 0.2 % offset or at extension indicated		Elongation in 2"
		(Min.)	Ext. under load	Full tube (min.)
Inch	psi	psi	Inches in 2"	Percent
(A)	95,000 max.			
(N)				
Up to 0.035 incl.	95,000	75,000	0.0090	10
Over 0.035 to 0.187 incl.	95,000	75,000	.0090	12
Over 0.187	95,000	70,000	.0087	15

From MIL-T-6736B Table II.

Tolerances

Specified OD Inches	OD Tolerance Annealed, Normalized, or Stress Relieved	Specified ID Inches	Wall Tolerance Annealed, Normalized, or Stress Relieved
Up to 0.5, incl.	+/- 0.005"	Up to 0.5.	+/- 15%
Over 0.5 to 1.5, incl.	+/- 0.005"	0.5 and over	+/- 10%
Over 1.5 to 3.0, incl.	+/- 0.010"	From AMS 2253E 3.1.1, 3.1.2.	

From AMS 2253E Tolerances Table I.

- Tubes with wall thickness less than 3% of the nominal OD will be allowed an ovality tolerance over and under equal to 0.5% of the nominal OD in addition to the tolerance indicated above, but the mean OD shall be within the individual measurement tolerances specified above.

Note: Commercial packaging and preservation applies on MIL-T-6736B



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