



# PLYMOUTH MOTORSPORTS PRODUCTS™



## ADVANTAGES:

- Tight tolerances
- Race-Proven Fatigue Strength
- Inherent Toughness (no weld seam)
- High Tensile Strength
- Repeatable Weldability
- Predictable Fabrication

## When Safety Matters, Trust the Source

At **Plymouth Tube Company**, we understand the importance of receiving material exactly as specified, especially for safety critical applications. Plymouth prides itself on producing products that meet or exceed the most stringent and demanding standards in order to provide customers with the highest quality tubing. Plymouth has been the preferred chassis and component tube provider for over 50 years. When you specify Plymouth tubing, you can rest assured you are getting a high quality, American drawn product.

## APPLICATIONS:

- Chassis
- Frame
- Steering Components
- Roll Bars
- Suspension Components

## RACING CLASSES SERVED:

- Mod-Lite
- Kart
- Mini Sprint
- Winged Sprint
- Non-wing Sprint
- Silver Crown
- Midget
- Three-Quarter Midget
- Quarter Midget
- 600 & 270 Micro Sprint
- Dirt Modified
- Outlaw Modified
- Super Modified
- Monster Truck
- Legends
- Super Late Model
- Crate Late Model
- Limited Late Model
- Late Model
- Rally Car
- Buggy
- Tractor Pull
- Formula
- Funny Car
- Dragster
- Stock Car
- Dwarf

## Plymouth ProMoly®

**Plymouth ProMoly® 4130 Cold Drawn Seamless Tubing** is a steel grade containing the alloy elements of chromium and molybdenum to help achieve desirable strength levels to meet your needs. The consistency of the OD and wall makes set-up easier and minimizes set-up variation. The proprietary controls of the annealing process offer welders the benefit of a surface finish with minimal decarburization and oxidation, reducing weld area preparation time. These controls also provide a consistent product from heat lot to heat lot, year after year.

## PROMOLY® SEAMLESS TUBING SIZE RANGE

- OD:** 0.125" - 2.250"
- OD Tolerance:** +/- 0.005" (up to 1.500" OD) to +/- 0.010" (above 1.500" OD)
- Wall Range:** 0.020" - 0.250"
- Wall Tolerance:** +/- 10% (ID's over 0.500") to +/- 15% (ID's under 0.500")
- Specifications:** AMS 6360 (Also meets AMS-T-6736A, MIL-T-6736B)
- Quality Assurance Certification:** ISO/TS 16949:2009

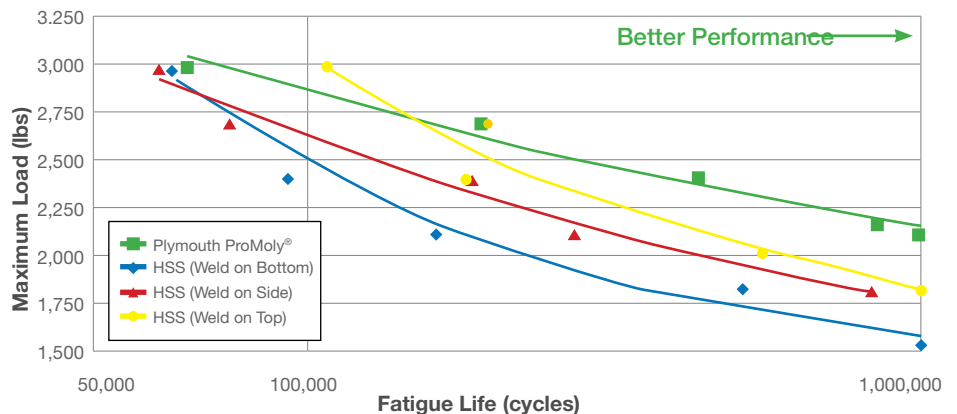
## CONTRASTING PLYMOUTH PROMOLY® AGAINST THE AMS STANDARD

	AMS 6360	ProMoly®	HSS
Min. Yield Strength (psi)	75,000	95,000	100,000
Min. Tensile Strength (psi)	95,000	105,000	116,000
Min. Elongation in 2" (%)	10 - 12%	15%	13%
Tube Type	Seamless	Seamless	Welded

## Available on request:

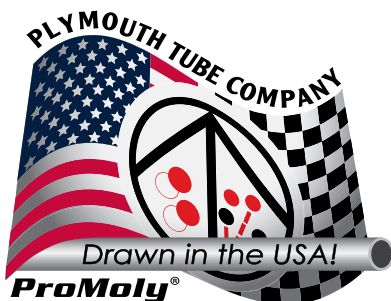
- Symmetrical and non-symmetrical shapes including round square, hex, triangle, oval, and streamline
- Intermediate sizes and lengths
- Material produced to other specifications
- Special mechanical properties

## LOAD LIFE DATA CURVES, PLYMOUTH PROMOLY® vs HSS



Plymouth ProMoly® has a superior track record of race-proven fatigue strength when compared to HSS. When specifying Plymouth ProMoly®, you will not have to be concerned with weld zone orientation of competing welded products.

Data Source: Westmoreland Mechanical Testing & Research, Inc., 2/2014. Any testing reaching 1,000,000 cycles was discontinued.





## Plymouth Pro18™ and Pro26™

**Plymouth Pro18™ 1018 and Pro26™ 1026 Cold Drawn Seamless Tubing** are two additional products geared towards the racing industry. Plymouth Tube Company has established itself the preferred producer of carbon steel tubing used in NASCAR and has dedicated itself to the High Performance Racing Industry. Both Pro18™ and Pro26™ have great weldability and machining properties. Through the cold drawing process, Plymouth is able to attain the most stringent sizing, tolerance, and specification requirements. Plymouth Tube can also provide symmetrical and non-symmetrical shapes including rounds, squares, rectangles, triangles, hexagons, and customer OD/ID combinations; the possibilities are virtually unlimited.

### PRO18™ & PRO26™ SEAMLESS TUBING SIZE RANGE

**OD:** 0.125" - 6.000"  
**Wall Range:** 0.020" - 1.000"  
**Max Length:** 75'  
**Specifications:** ASTM A-519

#### ADVANTAGES:

- Small and Large Diameter and Custom Sizes
- In-House Comprehensive Testing
- Offering Long Lengths & Close Tolerances
- Symmetrical & Non-Symmetrical OD/ID Shaped Tube Combinations
- Quick Turnaround

### SHAPED TUBING SIZE RANGE

**OD:** 0.3125" - 5.000"  
**Wall Range:** 0.020" - 0.500"  
**Lengths:** Lengths depending on application; short lengths available.

#### Shapes:

- Hexagons and Octagons, Across Flats: 0.3125" – 3.625"
- Rectangles and Squares: 0.625" per side min, 5.000" max
- Unique Shapes: Greater than 0.625"

#### Tolerances:

- Dimensional Tolerance, Standard: +/- 0.005
- Fillet and Radii Tolerance, Standard: 0.015" in Carbon
- Ratio of Height vs. Width: 1 : 1.16 (max)

**Properties:** Wide range of physical and mechanical properties, depending on grade, processing and annealing options.



#### ADVANTAGES:

- Exceptional Strength/Formability
- Excellent Surface Quality
- Above Standard Dimensional O.D. and I.D. precision
- High Quality Finished Product

## Plymouth Pro20™

For more than years, Plymouth Tube Company has been the leader in the production of high quality, Drawn Over Mandrel (DOM) tubing. **Plymouth's Pro20™ 1020 DOM Tubing** is electric-resistance welded and offers manufacturers the option of choosing customized and affordable tubing.

### PRO20™ DOM TUBING SIZE RANGE

**OD:** 0.250" - 1.750"  
**Wall Range:** 0.028" - 0.125"  
**Max Length:** 26'  
**Specifications:** ASTM A513 Type 5



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