

SUPREME 75

Product of Union Drawn Steel

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Union Drawn
Steel II LP



Precision Ground Shafting is Turned, Ground and Polished to perfection (TG&P).
High strength, micro alloyed steel with hot roll surface defects removed (HSDF).

The applications are endless.

CHEMISTRY

Medium carbon, micro alloyed (non resulphurized)

Carbon	0.43% - 0.50%
Manganese	0.60% - 0.90%
Phosphorus	0.040% max
Sulfur	0.015% - 0.050%

Others: Silicon, Copper, Chrome, Vanadium
*Can be modified for improved hardenability

MECHANICAL PROPERTIES

Tensile (UTS)	100,000 PSI (690 MPA)
<u>Minimum</u> Yield	75,000 PSI (515 MPA)
Elongation	10%
Reduction in Area	20%
Hardness	260 HB

Numbers reflect typical results; final product may vary.
Mechanical properties recorded on all test certificates.

TYPICAL APPLICATIONS

Hydraulics: Smooth finish and precise tolerances, cut to length to manufacture your hydraulic cylinder. Supreme 75 is also suitable for chrome plating.

Bearing Shafts: Precision diameter tolerance allows for standard bearing fit without further processing.

CAPABILITIES

Full range of size capabilities in Round Bar:

Size (inches)	Tolerance (inches)	Length
0.5000 – 0.6249	(+0 / -0.001)	12 ft
0.6250 – 1.5000	(+0 / -0.001)	24 ft
1.5001 – 2.4999	(+0 / -0.0015)	24 ft
2.5000 – 3.0000	(+0 / -0.002)	24 ft
3.0001 – 4.0000	(+0 / -0.003)	24 ft
4.0001 – 4.5000	(+0 / -0.004)	24 ft

*Metric sizes also available, 1.000" = 25.4mm

Surface Finish: 30 RA Maximum

Length Tolerance: (+1" / -0")

PACKAGING

0.5000"	Boxed	1,000 lbs
0.6250"	Boxed	2,000 lbs
All other	Carboard Tubes	4,000 lbs

Optional paper wrapping available.
Adjustable bundle sizes on request.