

Cencor™ TG&P Stainless Bar

Non-Magnetic, Precision Finish, Stainless Shaft

Typical Physical Properties

Brinell Hardness	185 BHN
Tensile Strength	80,000 P.S.I.
Yield Strength	30,000 P.S.I.
Elongation	35%
Reduction of Area	45%

Stock Lengths

10 Ft to 13 Ft Random Lengths
Cut Lengths – Product of the Bar

(Past Protected Trade Name of Associated
Steel Corporation – Econo-Krome™ Stainless)

Cencor (round bar) meets or exceeds
criteria for 316/316L Dual Certification.



English Sizes*

3/16"	3/4"	1-7/16"	2-1/8"	3"
1/4"	13/16"	1-1/2"	2-3/16"	3-7/16"
5/16"	7/8"	1-9/16"	2-1/4"	3-1/2"
3/8"	15/16"	1-5/8"	2-3/8"	3-15/16"
7/16"	1"	1-11/16"	2-7/16"	4"
1/2"	1-1/8"	1-3/4"	2-1/2"	4-1/2"
9/16"	1-3/16"	1-7/8"	2-5/8"	
5/8"	1-1/4"	1-15/16"	2-3/4"	
11/16"	1-3/8"	2"	2-15/16"	

Metric Sizes*

5MM	10MM	15MM	20MM	35MM
6MM	12MM	16MM	25MM	40MM
8MM	14MM	18MM	30MM	

*Please contact the Cleveland office for details about non-standard sizes of either English or Metric.

English Diameter Tolerances

Up to 1-1/2" Round(+.000"/-.001")
Over 1-1/2" Round to 2-1/2" Round(+.000"/-.002")
Over 2-1/2" Round to 3-1/2" Round(+.000"/-.003")
Over 4" Round(call for details)

Metric Diameter Tolerances

Up to 38MM Round(+.000"/-.001")
Over 38MM Round to 60MM Round....(+.000"/-.0015")

TG&P Cencor is Precision Ground and Polished (12 to 15 micro). In most cases it is supplied *near bearing fit*. Commercial stainless bars are supplied as; centerless ground, peeled or cold drawn. Tolerances on those bars are plus or minus. May be as much as .007" to .015" over or under. In most cases additional grinding is required. That additional grinding causes "walking" and movement due to induced stress.

Cencor is a Chrome Nickel Moly austenitic stainless suitable for high temperature service to 1600°F. It has excellent corrosion resistance. **Cencor meets or exceeds criteria for 316/316L Dual Certification.**

Cencor offers a higher degree of resistance to scaling, atmospheric and general corrosion than any of the 300 series austenitic grades. This product also offers a very high degree of resistance to "creep" at elevated temperatures and resistance to loss of tensile properties in applications of operating temperatures between 700°F and 1600°F.

For Pump Shaft applications, please see our **Mir 50** product on pages 43 and 44.