

# CENCOR™ TGP

## Non-Magnetic, Precision Finish, 300 Series Stainless

**Cencor** is Precision Turned Ground and Polished stainless shafting with a 12/15 micro finish. 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.

### Typical Mechanical 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%

\*Based on ½” Diameter Test Specimen

### English 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”/-.002”)  
 Over 3-1/2” Round Call for details

\*Above tolerances are typical.

### Metric Tolerances\*

Up to 38MM Round (+.000”/-.001”)  
 Over 38MM Round to 60MM Round (+.000”/-.002”)

\*Above tolerances are typical.

**Cencor™ TGP meets and/or exceeds criteria for 316/316L stainless dual certification.**



### Available 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”	

### Available Metric Sizes

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

### Available Lengths

10/13 Foot Random Lengths  
 Custom Cut-To-Lengths

**Boxing is recommended for all surface critical bar products.**