

# ALL THREAD ROD 304 STAINLESS STEEL

## SUBMITTAL SPECIFICATIONS ABSTRACT OF ASTM F593 & F594

GRADE: UNSTABILIZED 18 CHROMIUM, 8 NICKEL (ANSI TYPE 304)

### CHEMICAL REQUIREMENTS

Chemical analysis shall be performed in accordance with ASTM A751

| CARBON<br>MAX | MANGANESE<br>MAX | PHOPHOROUS<br>MAX | SULFUR<br>MAX | SILICON<br>MAX | CHROMIUM     | NICKEL      | COPPER |
|---------------|------------------|-------------------|---------------|----------------|--------------|-------------|--------|
| 0.08          | 2.00             | 0.045             | 0.030         | 1.00           | 18.0 to 20.0 | 8.0 to 10.5 | 1.00   |

### MECHANICAL REQUIREMENTS

| HARDNESS<br>ROCKWELL<br>MIN | YIELD STRENGTH<br>(KSI)<br>MIN | TENSILE STRENGTH<br>(KSI)<br>MIN | ELONGATION |
|-----------------------------|--------------------------------|----------------------------------|------------|
| B80-C32                     | 45                             | 85                               | 25         |

Hex Nuts ASTM F594 (ASME B18.2.2)     Heavy Hex Nuts ASTM F594 (ASME B18.2.2)

Washers T304 Stainless Steel

**DIMENSIONAL DATA:** Unless otherwise specified in the purchase order, parts shall be the coarse threaded series as specified in the latest issue of ANSI / ASME B18.2.1, page C-1 or Hex Cap Screws (Finished Hex Bolts) and AWWA C111.

**ADDITIONAL INFORMATION:** Additional information can be found in ASTM F-593, DTD 1998 (Stainless Steel Bolts, Hex Cap Screws) and in ASTM F-594, DTD 1998 (Stainless Steel Nuts).