

# INDUSTRIAL THREADED PRODUCTS INC.

13580 FIRESTONE BLVD., SANTA FE SPRINGS, CA 90670

800-976-BOLT FX: 800 646 4249

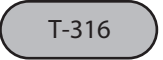
www.itpbolt.com

© 112009

## HEX BOLT T-316 & OVAL T-BOLT T-316

### SUBMITTAL SPECIFICATIONS

Abstract of ASTM F593 & F594



Grade: 18 Chromium, 10 Nickel, 2 Molybdenum (ANSI T-316)

### CHEMICAL REQUIREMENTS

Chemical analysis shall be performed in accordance with ASTM A751

CARBON MAX	MANGANESE MAX	PHOSPHOROUS MAX	SULFUR MAX	SILICON MAX	CHROMIUM	NICKEL	MOLYBDENUM
0.08	2.00	0.045	0.030	1.00	16.0 to 18.0	10.0 to 14.0	2.00 to 3.00

### MECHANICAL REQUIREMENTS

HARDNESS ROCKWELL MIN	TENSILE STRENGTH (KSI) (1/4" to 5/8" DIA)		TENSILE STRENGTH (KSI) (3/4" TO 1 1/2" DIA)		YIELD STRENGTH (KSI) MIN	ELONGATION (%)
	MIN	MAX	MIN	MAX		
B80 - C32	100	150	85	140	45	25

<input type="checkbox"/> Hex Nuts ASTM F594 ( ASME B18.2.2)	<input type="checkbox"/> Heavy Hex Nuts ASTM F594 (ASME B18.2.2)
---	--

<input type="checkbox"/> Hex Nuts ASTM F594 Teflon Coated Blue	<input type="checkbox"/> Heavy Hex Nuts ASTM F594 Teflon Coated Blue
--	--

<input type="checkbox"/> T-316 Stainless Steel Washers
--

### LOCATION

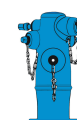
<input type="checkbox"/> Buried	<input type="checkbox"/> Submerged	<input type="checkbox"/> Above Grade	<input type="checkbox"/> Below Grade	<input type="checkbox"/> Other
---------------------------------	------------------------------------	--------------------------------------	--------------------------------------	--------------------------------

**DIMENSIONAL DATA:** Unless otherwise specified in the purchase order, parts shall be threaded in accordance with ANSI/ASME B18.2.1, Page C-1, for Hex Cap Screws ( Finished Hex Bolts). Additional information can be found in ASTM F593, DTD 1998 ( Stainless Steel Bolts, Hex Cap Screws) and in ASTM F594, DTD 1998 ( Stainless Steel Nuts.)

12027 Arrow Route  
Rancho Cucamonga, CA 90670  
909-466-9445  
fx: 909-945-2696

2145 South 11th Ave. Ste 130  
Phoenix, AZ 85007-4199  
800-976-2658  
fx:800-646-4249

174 Lawrence Drive L  
Livermore, CA 94550  
800-566-8831  
fx: 800-646-4249



PROVIDED AS A COURTESY BY:

**PACIFIC**

PIPELINE SUPPLY