

INDUSTRIAL THREADED PRODUCTS INC.

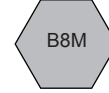
13580 FIRESTONE BLVD., SANTA FE SPRINGS, CA 90670

800-976-BOLT FX: 800 646 4249

www.itpbolt.com

HEAVY HEX BOLT GRADE B8M T-316 SS

SUBMITTAL SPECIFICATIONS
Abstract of ASTM A193 / ASTM A194



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
RANGE	0.08	2.00	0.045	0.03	1.00	16.0 to 18.0	10.0 to 14.0	2.00 to 3.00
VARIATION	0.01 OVER	0.04 OVER	0.010 OVER	0.005 OVER	0.05 OVER	0.20	0.15	0.10

MECHANICAL REQUIREMENTS

HARDNESS ROCKWELL MIN	HARDNESS BRINELL MIN	TENSILE STRENGTH (KSI) MIN	YIELD STRENGTH (KSI) MIN	REDUCTION OF AREA (%)	ELONGATION (%)
96	223	75	30	50	30

Grade: 18 Chromium, 10 Nickel, 2 Molybdenum (ANSI Type 316)
Carbide Solution Treated

<input type="checkbox"/> Heavy Hex Nuts ASTM A564 (ASME B18.2.2)	<input type="checkbox"/> T-316 Stainless Steel Washers
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LOCATION

<input type="checkbox"/> Buried	<input type="checkbox"/> Submerged	<input type="checkbox"/> Above Grade	<input type="checkbox"/> Below Grade	<input type="checkbox"/> Other
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DIMENSIONAL DATA: All bolts and nuts should be Heavy Pattern. Unless otherwise specified in the purchase order, parts shall be threaded in accordance with ANSI/ASME B1.1, Page A-26 class 2A fit. Bolt heads shall be in accordance with the dimensions of ANSI/ASME B18.2.1, Page C-1

ADDITIONAL INFORMATION: Additional information can be found in ASTM 193/A193M, DTD 1998 (Alloy Steel and Stainless Steel Bolting materials for High Temperature Services) and in ASTM A194/A194M, DTD 1998 (Carbon and Alloy Steel Nuts for High-Temperature Services).

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