

ALL THREAD ROD B7
SUBMITTAL SPECIFICATIONS

Abstract of ASTM A193

Material Grade: Chromium-Molybdenum, AISI 4140/4142, ASTM A193-B7

Chemical Requirements (%)

Carbon:	0.37-0.49
Manganese:	0.65-1.10
Phosphorous (max):	0.035
Sulfur (max):	0.040
Silicon:	0.15-0.35
Chromium:	0.75-1.20
Molybdenum:	0.15-0.25

Mechanical Requirements

<u>2-1/2" and Under Diameters</u>	<u>Minimum</u>	<u>Maximum</u>
Tensile Strength (KSI)	125	
Yield Strength (KSI)	105	
Elongation in 4D (%)	16	
Reduction of Area (%)	50	
Hardness (Brinell)		321
Hardness (Rockwell)		C35

Identification Symbol: Manufacturers Trademark + B7

Other:

Unless otherwise specified in the purchase order, Rod shall be threaded in accordance with ANSI/ASME B1.1, Unified Inch Screw Threads, Class 2A Fit. Additional information can be found in ASTM A193/A193M – Alloy Steel and Stainless Steel Bolting Materials for High-Temperature Services.

Nuts: Nuts shall conform to ASTM A194 Grade 2H

Flat Washers: ASTM F436 (Hardened Washer)

Finish Options:

Plain

Zinc to ASTM B633 TYII

HDG to ASTM A153*F2329