

ALL THREAD ROD GRADE A193 B7

SUBMITTAL SPECIFICATIONS
 Abstract of ASTM A193 / ASTM A194

Grade: CHROMIUM LYBDENUM (AISI 4140)

CHEMICAL REQUIREMENTS

Chemical analysis shall be performed in accordance with ASTM A751

	CARBON	MANGANESE	PHOPHOROUS MAX	SULFUR MAX	SILICON	CHROMIUM	MOLYBDENUM
RANGE	0.37 – 0.49	0.65 – 1.10	0.035	0.040	0.15 – 0.35	0.75 – 1.20	0.15 – 0.25
VARIATION	0.02	0.04	0.005 OVER	0.005 OVER	0.02	0.05	0.02

MECHANICAL REQUIREMENTS

YIELD STRENGTH (KSI)	REDUCTION OF AREA %	TENSILE STRENGTH (KSI)	ELONGATION %
105	50	125	16

Heavy Hex Nuts Grade 2H ASTM A194 Washers ASTM F436 Hardened Steel

STUDS AND NUTS MAY BE SUPPLIED

Plain Zinc Plated Hot Dip Galvanized Teflon Coated

LOCATION

Buried Submerged Above Grade Below Grade Other

DIMENSIONAL DATA: Sizes 1 inch and smaller in diameter with the coarse-thread series, and the 1 1/8 inch and larger in diameter with the 8-pinch thread series unless otherwise specified by the customer.

ADDITIONAL INFORMATION: Additional information can be found in ASTM A193 / A193M, DTD 1998 (alloy steel and stainless bolting materials for high temperature services) and in ASTM A194 / A194M, DD 1998 (carbon and alloy steel nuts for bolts for high temperature services).