

HEAVY HEX NUTS A194 GRADE 7

SUBMITTAL SPECIFICATION

"ABSTRACT OF ASTM A194/A194M"

"Carbon and Alloy Steel Nuts for Bolts for High-Pressure and High-Temperature Service"

MATERIAL / GRADE: AISI 4140/4142/4145, ASTM A194-7

CHEMICAL REQUIREMENTS (%):

CARBON	0.37-0.49
MANGANESE	0.65-1.10
PHOSPHOROUS, MAX	0.040
SULFUR, MAX	0.040
SILICON, MAX	0.15-0.35
CHROMIUM	0.75-1.20
MOLYBDENUM	0.15-0.25

MECHANICAL REQUIREMENTS:

<u>ALL DIAMETERS</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>
HARDNESS (BRINELL)	248	352
HARDNESS (ROCKWELL)	C24	C38

SEE ASTM A194/A194M FOR PROOF LOADS ON INDIVIDUAL SIZES

WHEN LOW-TEMPERATURE SERVICE IS REQUIRED PER SUPPLEMENTARY S3, CHARPY IMPACT TESTS SHALL BE PERFORMED PER ASTM A320-L7 AND THE NUT SHALL BE STAMPED "L7".

IDENTIFICATION SYMBOL: 7

OTHER:

ALL NUTS, UNLESS OTHERWISE SPECIFIED IN THE PURCHASE ORDER, SHALL BE THREADED IN ACCORDANCE WITH ANSI/ASME B1.1, CLASS 2B FIT. HEX NUTS SHALL BE IN ACCORDANCE WITH THE DIMENSIONS OF ANSI/ASME B18.2.2. UNLESS OTHERWISE SPECIFIED, THE HEAVY HEX SERIES SHALL BE USED. ADDITIONAL INFORMATION CAN BE FOUND IN ASTM A194/A194M, CARBON AND ALLOY STEEL NUTS FOR BOLTS FOR HIGH-PRESSURE AND HIGH-TEMPERATURE SERVICE.

Pacific Coast Bolt

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