

HEAT-TREATED ALLOY STUDS, BOLTS, NUTS AND THREADED BARS

Alloy Steel Stud Bolting Materials

The following grades of heat treated alloy steel studs are commonly used for high-pressure or extreme service in diameters of 1/4 inch to 4 inches inclusive. Other grades and other diameters are available on special order.

ASTM A193, Grade B7

A heat treated chromium-molybdenum steel widely used for medium high temperature service. (Liquid quench -50° - 900° F. Air quench -40° - 900° F.)

ASTM A193, Grade B7M

Similar to B7 studs except that the minimum yield and tensile strength requirements are reduced and the hardness controlled to 235 Brinell maximum. Designed for use in corrosive environments. (-50° - 900°F.).

ASTM A193, Grade B16

A heat treated chromium-molybdenum steel for high pressure, high temperature service. (-50° - 1100°F)

ASTM A320, Grade L7

This grade is intended for low temperature service down to minus 150°F and has a minimum Charpy impact value of 20 ft. lbs. at this temperature. (-50° - 1100°F.)

ASTM A320, Grade L7M

Similar to L7 studs except that the minimum yield and tensile strength requirements are reduced and the hardness controlled to 235 Brinell maximum. This stud is designed for use in low temperature corrosive environments. (-150° - 1100°F.)

ASTM A320, Grade L43

This grade is intended for low temperature service down to minus 150°F and has a minimum Charpy impact value of 20 ft. lbs. at this temperature. Available in sizes up to 4 in. (-150° - 1100°F)

ASTM A193, Grade B8

These Chromium-Nickel (AISI 304) austenitic steel studs are used in corrosive environments. (-325° - 1500°F.)

ASTM A193, Grade B8M

These Chromium-Nickel Molybdenum (AISI 316) austenitic steel studs are used in corrosive environments. (-325° - 1500°F.)

Carbon And Alloy Steel Nuts

ASTM A194, Latest Revision, Grade 2H
Suitable for high temperatures and high pressure conditions.

ASTM A194, Grade 2HM

Similar to 2H nuts except this grade is designed for use in corrosive environments.

ASTM A194, Latest Revision, Grade 4

Heat treated molybdenum steel nuts suitable for severe temperature and pressure conditions.

ASTM A194, Latest Revision, Grade L7

New stamping as per ASTM is 7L. Heat treated chrome-molybdenum steel nuts suitable for extreme temperature and pressure conditions. Suitable for sub-zero service conditions and have minimum Charpy impact values of ASTM spec. A320. Grade 7 down to 150°F.

ASTM A194, Grade L7M

New stamping as per ASTM is 7ML. Similar to grade L7 nuts except this grade is designed for use in corrosive environments.

ASTM A194, Grade 8/8M

Stainless steel nuts designed for use in corrosive environments.



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