ACTION Fasteners & Supply

Did You Know?

COMMON NUTS & BOLTS

SAE International, formerly the Society of Automotive Engineers, is a U.S.-based standards organization that develops technical information for a variety of industries.

ASTM, American Society for Testing and Materials, is an international standards organization that publishes a voluntary consensus for a variety of materials and services.

HEX NUTS

ASTM A563 Grade-A
Low carbon steel, general purpose nut.

SAE J429 Grade-2
Low or medium carbon steel. For general structural and mechanical applications.

SAE J995 Grade-5
Use with bolts that have a minimum tensile strength equal to or less than the nut's specified proof stress.

SAE J995 Grade-8
For high strength use in industrial and commercial applications. A Grade 8 nut is significantly stronger than a Grade 5.

HEX BOLTS

ASTM A307 A
Low carbon steel, general purpose bolt.

SAE J429 Grade-2
General purpose bolt. Up to 3/4 of an inch, the minimum strength requirement of a Grade 2 is greater than that of an A307A.

SAE J429 Grade-5
Medium carbon steel, quenched and tempered.

SAE J429 Grade-8
Medium carbon alloy steel. A Grade 8 bolt is significantly stronger than a Grade 5.

HEAVY HEX NUTS

ASTM A563 Grade-B
Carbon Steel. For general use in industrial, commercial and residential applications.

ASTM A194 Grade-2H
Medium carbon steel, heat treated, quenched and tempered.

ASTM A563-C
Medium carbon steel, may be heat treated, quenched and tempered.

ASTM A563-DH
Medium carbon steel or alloy, heat treated, quenched and tempered. A194 2H nuts are an acceptable substitute for A563 DH nuts.

HEAVY HEX BOLTS

ASTM A307B
Intended for joining piping systems with cast iron flanges. When specified, you should **NOT** substitute this bolt.

ASTM A193 B7
Alloy steel, AISI 4140/4142, heat treated, quenched and tempered. Generaly used in high temperature/pressure pipe flange and valve service.

ASTM F3125 A325 Type 1
Structural bolt. Medium carbon, carbon boron, or medium carbon alloy steel.

ASTM F3125 Grade-A490
Structural bolt. Stronger than an A325, they are primarily used for connecting structural steel.

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