

Reli-A-Pak® Bolt, Nut, & Gasket Sets by Reliable Fasteners, Inc.

ASTM A194

The ASTM A194 specification covers a variety of carbon, alloy, and martensitic and austenitic stainless steel nuts intended for use in high-temperature and/or high-pressure service. A194 nuts meet ASME/ ANSI B18.2.2 dimensions. The standard thread pitch for A194 nuts with a diameter of 1" or smaller is coarse threaded (UNC Series Class 2B). For diameters larger than 1", the standard thread pitch is 8 threads per inch (UN Series Class 2B), but coarse thread pitch is also available. The following is a partial list of some of the most common grades:

Grades	
2H	Medium Carbon Steel / Quenched and Tempered / Heavy Hex
2HM	Medium Carbon Steel / Quenched and Tempered / Heavy Hex
4	Medium Carbon Alloy Steel / Quenched and Tempered / Heavy Hex
7	Medium Carbon Alloy Steel / Quenched and Tempered / Heavy Hex
7M	Medium Carbon Alloy Steel / Quenched and Tempered / Heavy Hex
8	AISI 304 Stainless Steel / Heavy Hex
8M	AISI 316 Stainless Steel / Heavy Hex

Mechanical Properties				
Grade	Size	Proof Load, psi	Brinell Hardness	Rockwell Hardness
2H	1/4" – 4"	175,000	248 352	C24 C38
2HM	1/4" – 4"	150,000	159 237	C22 max
4	1/4" – 4"	175,000	248 352	C24 C38
7	1/4" – 4"	175,000	248 352	C24 C38
7M	1/4" – 4"	150,000	159 237	C22 max
8	1/4" – 4"	80,000	126 300	B60 B105
8M	1/4" – 4"	80,000	126 300	B60 B105

This is only a partial description of this specification, and should not be used as the only source of data. For complete and up to date information, consult the current version of this specification.

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