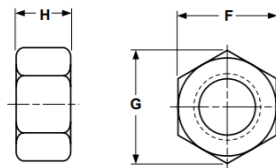


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HEAVY HEX NUT – GRADE 2 STEEL ZINC AND 18-8 STAINLESS STEEL

The following Specification Sheet applies to all **Heavy Hex Nut – Grade 2 Steel Zinc and 18-8 Stainless Steel** in our **JHNN** series.



HEAVY HEX NUTS										ASME B18.2.2
Nominal Size or Basic Major Diameter of Thread		F			G		H			
		Width Across Flats			Width Across Corners		Thickness			
		Basic	Max	Min	Max	Min	Basic	Max	Min	
1/4	0.2500	1/2	0.500	0.488	0.577	0.556	15/64	0.250	0.218	
3/8	0.3750	11/16	0.688	0.669	0.794	0.763	23/64	0.377	0.341	
1/2	0.5000	7/8	0.875	0.850	1.010	0.969	31/64	0.504	0.464	
5/8	0.6250	1-1/16	1.062	1.031	1.227	1.175	39/64	0.631	0.587	
3/4	0.7500	1-1/4	1.250	1.212	1.443	1.382	47/64	0.758	0.710	

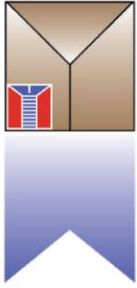
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GRADE-2

Description	A six-sided internally threaded fastener whose thickness is .875 D where D is the nominal nut size and 1.5D is their width across the flats, made from low carbon steel.
Applications/Advantages	The most versatile and widely used nut design. Grade-2 nuts are for use with any low carbon bolt or screw that is not heat-treated, with a specified minimum tensile strength of 74,000 psi or less.
Material	Grade-2 nuts shall be made from a low carbon steel which conforms to the following chemical composition requirements-- <i>Carbon</i> : 0.47% maximum; <i>Phosphorus</i> : 0.12% maximum; <i>Sulfur</i> : 0.23% maximum.
Hardness	Rockwell B68 - C32
Proof Load	<u>Coarse thread</u> : 90,000 psi.; <u>Fine thread</u> : 80,000 psi.
Plating	See Appendix-A for information on the plating of steel finished hex nuts.

STAINLESS STEEL 18-8

Description	Six-sided internally threaded fasteners whose thickness is .875 D where D is the nominal nut size and 1.5D is their width across the flats, made from austenitic alloys as described below.
Applications/Advantages	Designed for use with stainless steel bolts and screws with a specified minimum tensile strength equal to or less than the specified proof stress of the mating nut. Stainless is corrosion resistant.
Material	Nuts shall be made from one of the following austenitic alloys: 303, 303Se, 304, XM7, all of which are characterized as having a chromium content of 18% and nickel content of 8-10%.
Heat Treatment	The austenitic alloys develop their strength through work hardening during the fastener manufacturing process, as seen from the hardness properties below. The only heat treatment normally available on austenitic stainless alloys is annealing, which is done at approximately 1900°F to a dead soft condition and is not normally thermally reversible.
Hardness	<u>1/4 through 5/8"</u> : Rockwell B95 - C32; <u>3/4 through 1"</u> : Rockwell B80 - C32
Proof Load	<u>1/4 through 5/8"</u> : 100,000 psi.; <u>Fine thread</u> : 85,000 psi.

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