



HEAVY HEX JAM NUTS

ASME B18.2.2 2010

| Nominal Size | F | | G | | H | |
|--------------|--------------------|-------|----------------------|-------|-----------|------|
| | Width Across Flats | | Width Across Corners | | Thickness | |
| | Max | Min | Max | Min | Max | Min |
| 1/4 | .500 | .488 | .577 | .556 | .188 | .156 |
| 5/16 | .562 | .546 | .650 | .622 | .220 | .186 |
| 3/8 | .688 | .669 | .794 | .763 | .252 | .216 |
| 7/16 | .750 | .728 | .866 | .830 | .285 | .247 |
| 1/2 | .875 | .850 | 1.010 | .969 | .317 | .277 |
| 9/16 | .938 | .909 | 1.083 | 1.037 | .349 | .307 |
| 5/8 | 1.062 | 1.031 | 1.227 | 1.175 | .381 | .337 |
| 3/4 | 1.250 | 1.212 | 1.443 | 1.382 | .446 | .398 |
| 7/8 | 1.438 | 1.394 | 1.660 | 1.589 | .510 | .458 |
| 1 | 1.625 | 1.575 | 1.876 | 1.796 | .575 | .519 |
| 1-1/8 | 1.812 | 1.756 | 2.093 | 2.002 | .639 | .579 |
| 1-1/4 | 2.000 | 1.938 | 2.309 | 2.209 | .751 | .687 |
| 1-3/8 | 2.188 | 2.119 | 2.526 | 2.416 | .815 | .747 |
| 1-1/2 | 2.375 | 2.300 | 2.742 | 2.622 | .880 | .808 |

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| Description | A six-sided internally threaded fastener which is only 2/3 the thickness of a heavy hex nut. |
| Applications / Advantages | Jam nuts are tightened against the work surface and a full heavy hex nut is tightened against the heavy hex jam nut to keep it from loosening. |
| Material | Steel nuts shall be made from a low carbon steel which conforms to the following chemical composition-- <i>Carbon:</i> 0.47% maximum; <i>Phosphorous:</i> 0.12% maximum; <i>Sulfur:</i> 0.23% maximum |
| Hardness | Grade 2: Rockwell C 32 maximum Grade 5: Rockwell C 32 maximum Grade 8: 1/4 thru 5/8"-- Rockwell C 24-32; Over 5/8 thru 1"-- Rockwell C 26-34; Over 1 thru 1 1/2"-- Rockwell C 26-36 |
| Proof Load | Grade 2: <u>Coarse thread:</u> 54,000 psi.; <u>Fine thread:</u> 48,000 psi. Grade 5 (1/4 thru 1"): <u>Coarse thread:</u> 72,000 psi.; <u>Fine thread:</u> 65,000 psi. Grade 5 (over 1" thru 1 1/2"): <u>Coarse thread:</u> 63,000 psi.; <u>Fine thread:</u> 57,000 psi. Grade 8: <u>Coarse thread:</u> 90,000 psi.; <u>Fine thread:</u> 90,000 psi. |
| Plating | Standard finish is clear zinc. |