



| SQUARE AND HEX MACHINE SCREW NUTS     |        |                    |       |       |                      |       |       |       |           |       | ANSI/ASME B18.6.3 |
|---------------------------------------|--------|--------------------|-------|-------|----------------------|-------|-------|-------|-----------|-------|-------------------|
| Nominal Size or Basic Thread Diameter |        | F                  |       |       | G                    |       | G1    |       | H         |       |                   |
|                                       |        | Width Across Flats |       |       | Width Across Corners |       |       |       | Thickness |       |                   |
|                                       |        | Basic              | Max   | Min   | Square               |       | Hex   |       | Max       | Min   |                   |
|                                       |        |                    |       |       | Max                  | Min   | Max   | Min   |           |       |                   |
| 0                                     | 0.0600 | 5/32               | 0.156 | 0.150 | 0.221                | 0.206 | 0.180 | 0.171 | 0.050     | 0.043 |                   |
| 1                                     | 0.0730 | 5/32               | 0.156 | 0.150 | 0.221                | 0.206 | 0.180 | 0.171 | 0.050     | 0.043 |                   |
| 2                                     | 0.0860 | 3/16               | 0.188 | 0.180 | 0.265                | 0.247 | 0.217 | 0.205 | 0.066     | 0.057 |                   |
| 3                                     | 0.0990 | 3/16               | 0.188 | 0.180 | 0.265                | 0.247 | 0.217 | 0.205 | 0.066     | 0.057 |                   |
| 4                                     | 0.1120 | 1/4                | 0.250 | 0.241 | 0.354                | 0.331 | 0.289 | 0.275 | 0.098     | 0.087 |                   |
| 5                                     | 0.1250 | 5/16               | 0.312 | 0.302 | 0.442                | 0.415 | 0.361 | 0.344 | 0.114     | 0.102 |                   |
| 6                                     | 0.1380 | 5/16               | 0.312 | 0.302 | 0.442                | 0.415 | 0.361 | 0.344 | 0.114     | 0.102 |                   |
| 8                                     | 0.1640 | 11/32              | 0.344 | 0.332 | 0.486                | 0.456 | 0.397 | 0.378 | 0.130     | 0.117 |                   |
| 10                                    | 0.1900 | 3/8                | 0.375 | 0.362 | 0.530                | 0.497 | 0.433 | 0.413 | 0.130     | 0.117 |                   |
| 12                                    | 0.2160 | 7/16               | 0.438 | 0.423 | 0.619                | 0.581 | 0.505 | 0.482 | 0.161     | 0.148 |                   |
| 1/4                                   | 0.2500 | 7/16               | 0.438 | 0.423 | 0.619                | 0.581 | 0.505 | 0.482 | 0.193     | 0.178 |                   |
| 5/16                                  | 0.3125 | 9/16               | 0.562 | 0.545 | 0.795                | 0.748 | 0.650 | 0.621 | 0.225     | 0.208 |                   |
| 3/8                                   | 0.3750 | 5/8                | 0.625 | 0.607 | 0.884                | 0.833 | 0.722 | 0.692 | 0.257     | 0.239 |                   |

|                                 |  |
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| <b>Description</b>              | <p><b>Hex Machine Screw Nut:</b> A six-sided internally threaded fastener with flat tops and chamfered corners. Threads shall be Unified Standard, Class 2B.</p> <p><b>Square Machine Screw Nut:</b> A four-sided, internally threaded fastener, tops and bottoms flat, without chamfer. Threads shall be Unified coarse thread, Class 2B.</p> |
| <b>Applications/ Advantages</b> | <p><b>Hex Machine Screw Nut:</b> Designed to be used specifically with machine screws. Stainless nuts are used with stainless machine screws where parts are subject to corrosive conditions.</p> <p><b>Square Machine Screw Nut:</b> Offers a greater bearing surface for wrenching.</p>  |
| <b>Material</b>                 | <p><b>Steel:</b> Any low carbon steel</p> <p><b>Stainless:</b> 18-8 stainless steel</p>  |
| <b>Plating</b>                  | See Appendix-A for plating information.  |