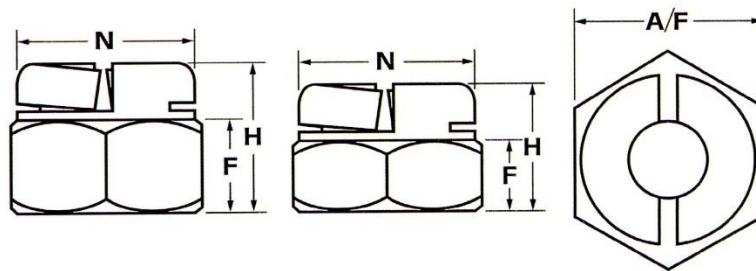


## AEROTIGHT® NUTS

The aerotight® nut is a type of all-metal prevailing torque nut. This type of nut is called a self-locking nut or stiffnut. The nut can be used a number of times with the self-locking function remaining effective. The aerotight® nut is designed to stay in position whether it is tightened down or not provided the locking element is engaged. When assembled on the screw, two full threads should protrude through the aerotight nut. Aerotight® nuts should not be used on damaged or interrupted threads.



| Thread size | Pitch mm | A/F MAX. mm | N Dia Max. mm | H Max. mm | F Min. mm |
|-------------|----------|-------------|---------------|-----------|-----------|
| <b>M2.5</b> | 0.45     | 5.00        | 4.75          | 2.97      | 1.49      |
| <b>M3</b>   | 0.50     | 5.50        | 5.25          | 3.52      | 1.89      |
| <b>M3.5</b> | 0.65     | 7.00        | 6.65          | 4.79      | 2.69      |
| <b>M4</b>   | 0.70     | 7.00        | 6.65          | 4.79      | 2.69      |
| <b>M5</b>   | 0.80     | 8.00        | 7.65          | 6.02      | 3.49      |
| <b>M6</b>   | 1.00     | 10.00       | 9.58          | 7.95      | 4.63      |
| <b>M8</b>   | 1.25     | 13.00       | 12.53         | 10.00     | 6.12      |
| <b>M10</b>  | 1.50     | 17.00       | 16.53         | 12.03     | 7.62      |
| <b>M12</b>  | 1.75     | 19.00       | 18.47         | 14.48     | 9.62      |
| <b>M16</b>  | 2.00     | 24.00       | 23.47         | 18.75     | 12.62     |
| <b>M20</b>  | 2.50     | 30.00       | 29.47         | 22.35     | 15.62     |
| <b>M24</b>  | 3.00     | 36.00       | 35.18         | 26.85     | 18.62     |

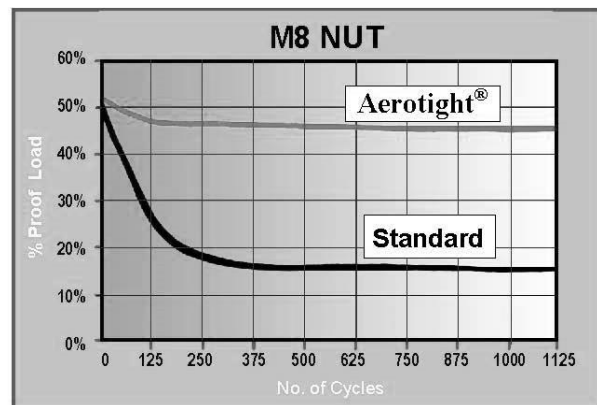
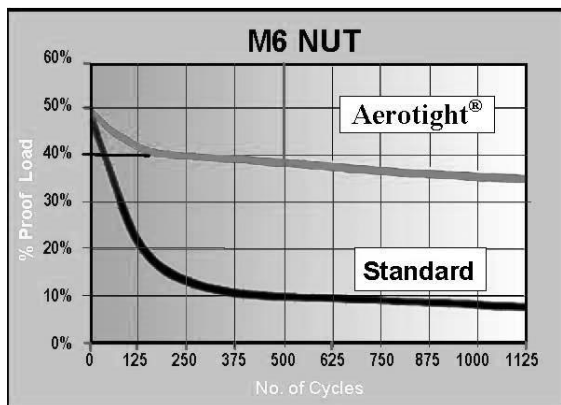
ISO METRIC THREADS TO BS 3643 CLASS 6H

NOTE: ISO METRIC AEROTIGHT® NUTS ARE NORMALLY AVAILABLE IN ONE THICKNESS

|   | SIZE  | A/F Max. | Dia, N Max. | H Max. Ordinary | H Max. Thin | F Min. Ordinary | F Min. Thin |
|---|-------|----------|-------------|-----------------|-------------|-----------------|-------------|
| <b>UNC/UNF threads To BS1580 Class 2B</b>   | NO4   | 0.250    | 0.177       | 0.172           | 0.140       | 0.080           | 0.053       |
|   | NO6   | 0.313    | 0.238       | 0.203           | 0.167       | 0.100           | 0.064       |
|   | NO10  | 0.375    | 0.360       | 0.266           | 0.222       | 0.149           | 0.105       |
|   | 1/4   | 0.438    | 0.425       | 0.312           | 0.245       | 0.175           | 0.108       |
|   | 5/16  | 0.500    | 0.488       | 0.408           | 0.299       | 0.250           | 0.141       |
|   | 3/8   | 0.563    | 0.550       | 0.459           | 0.355       | 0.287           | 0.183       |
|   | 7/16  | 0.688    | 0.675       | 0.539           | 0.414       | 0.350           | 0.225       |
|   | 1/2   | 0.750    | 0.738       | 0.621           | 0.475       | 0.412           | 0.266       |
|   | 5/8   | 0.937    | 0.922       | 0.773           | N/A         | 0.537           | N/A         |
| 3/4   | 1.125 | 1.110    | 0.934       | N/A             | 0.662       | N/A             |             |
| <b>BA Threads To BS93</b>                   | 6     | 0.193    | 0.183       | 0.157           | 0.125       | 0.080           | 0.053       |
|   | 4     | 0.248    | 0.238       | 0.203           | 0.162       | 0.110           | 0.069       |
|   | 2     | 0.324    | 0.314       | 0.256           | 0.212       | 0.142           | 0.098       |
|   | 0     | 0.413    | 0.403       | 0.328           | 0.272       | 0.188           | 0.132       |
| <b>BSW/BSF Threads To BS84 Normal Class</b> | 3/16  | 0.324    | 0.314       | 0.256           | 0.212       | 0.142           | 0.098       |
|   | 1/4   | 0.445    | 0.433       | 0.312           | 0.245       | 0.175           | 0.108       |
|   | 5/16  | 0.525    | 0.513       | 0.383           | 0.299       | 0.225           | 0.141       |
|   | 3/8   | 0.600    | 0.588       | 0.459           | 0.355       | 0.287           | 0.183       |
|   | 1/2   | 0.820    | 0.808       | 0.621           | 0.475       | 0.412           | 0.266       |

## Vibration Test Comparison

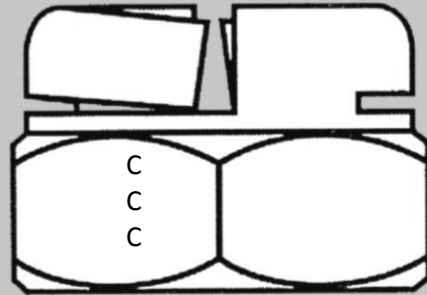
Aerotight® nut (A4 Stainless Steel) & Standard Nut (Grade 8)



Nut tested using Standard Grade 8.8 Bolt - Unlubricated. Accuracy of result: +/- 10%.  
 Test carried out on a Junker Vibration Test Machine with kind permission of Land Rover, Gaydon.

## Material Specification Available

**Please Note:** All Genuine 316(A4) aerotight® are marked with a unique identification on one of the flats of the hexagon (As shown)



- Stainless Steel 303 & 316(A4)
- Stainless steel A4-80
- Mild steel 230 M07 Non-Leaded BS970
- Zinc & Clear Trivalent or Zinc & Yellow passivate
- Brass BS2874 CZ121

### **316 (A4) Stainless Steel**

316 (A4) Stainless Steel has been developed for use in highly corrosive environments.

316 (A4) stainless steel aerotight® can be safely used for outdoor applications in coastal and industrial areas where atmospheric corrosion is severe.

316(A4) Stainless Steel aerotight® is suitable for use in the chemical, photographic, food and horticultural industries.