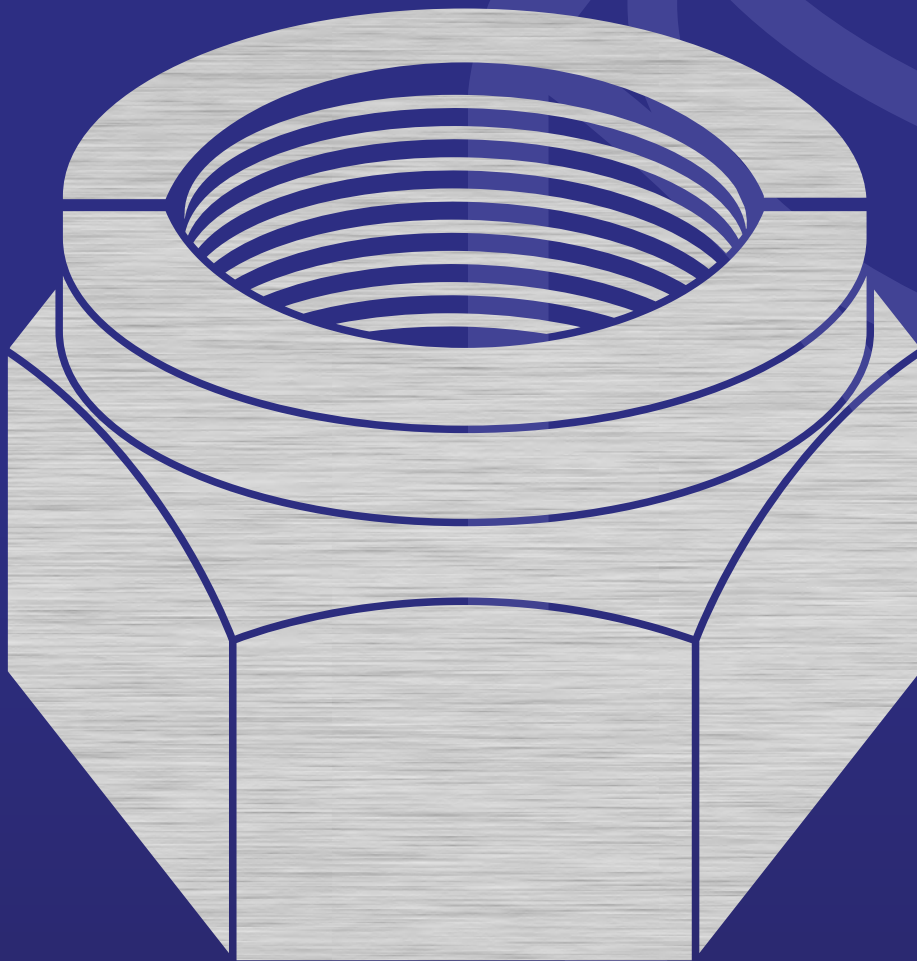


# Aerotight<sup>®</sup>

*THE ALL METAL SELF-LOCKING NUT*



---

**VIBRATION RESISTANT FASTENERS**

# THE SOLUTION TO YOUR VIBRATION PROBLEMS

Once the locking element is engaged, Aerotight® will stay in position whether tightened or not – no additional parts, specialised tools or recommended Torque are required.



# THE MOST DURABLE YET

Both the Steel & Austenitic Stainless Steel Nuts can withstand temperatures of up to 300 degrees Celsius, and as an all metal Stiff Nut, there are no vulnerable inserts susceptible to heat or oil damage.

# CUSTOMISABLE SPECIALS

The self-locking nut can also be uniquely customised. Aerotight® supplies nuts in specified thicknesses, diameters, materials and finishes. This includes steel, stainless steel, brass and other alloys. Get in touch for more information.



# AEROTIGHT® NUTS ARE AVAILABLE IN A RANGE OF SIZES

## Metric Range:

Thread Size Norm (M)	Pitch (mm)	A/F Max. (mm)	N. Dia. Max. (mm)	H. Max. (mm)	F. Min. (mm)
2.5	0.45	5.00	4.75	2.97	1.49
3	0.50	5.50	5.25	3.52	1.89
3.5	0.65	7.00	6.65	4.79	2.69
4	0.70	7.00	6.65	4.79	2.69
5	0.80	8.00	7.65	6.02	3.49
6	1.00	10.00	9.58	7.95	4.63
8	1.25	13.00	12.62	10.05	5.87
10	1.50	17.00	16.53	12.03	7.62
12	1.75	19.00	18.47	14.48	9.62
16	2.00	24.00	23.47	18.75	12.62
20	2.50	30.00	29.47	22.35	15.62
24	3.00	36.00	35.18	26.85	18.62

## Non Metric Range:

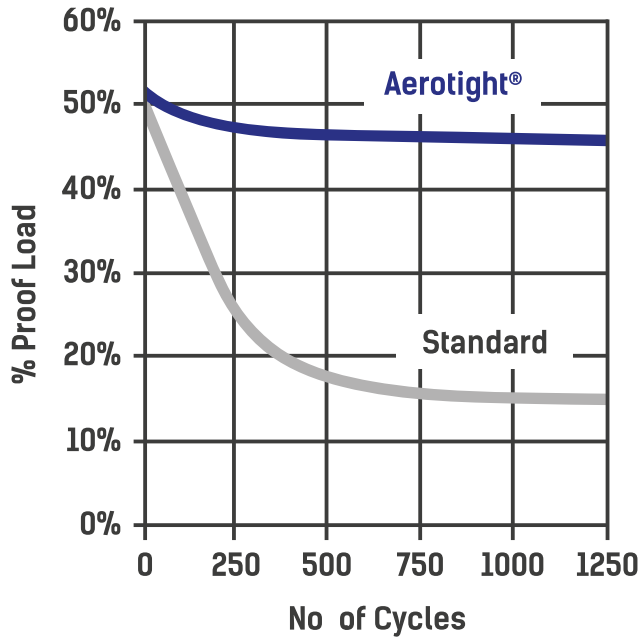
Thread	Size	A/F Max.	N. Dia. Max.	H. Max. Ordinary	Thin	F Min. Ordinary	Thin
UNC/UNF Threads to BS 1580 Class 2B	No. 4	0.250	0.177	0.172	0.140	0.080	0.053
	No. 6	0.313	0.238	0.203	0.167	0.100	0.064
	No. 10	0.373	0.332	0.266	0.222	0.142	0.098
	1/4	0.438	0.425	0.312	0.245	0.175	0.108
	5/16	0.500	0.488	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
BA Threads to BS 93	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
BSW/BSF Threads to BS 84 Normal Class	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

Note - ISO Metric nuts are normally available in one thickness

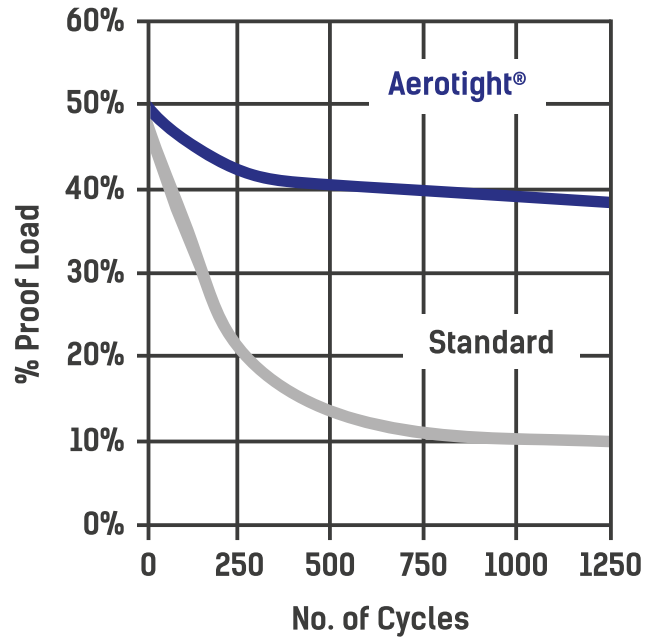
# AEROTIGHT® NUTS VS STANDARD NUTS

Tests conducted at Land Rover Gaydon

## M8 NUT



## M6 NUT



## EXCELLENT CUSTOMER SERVICE AND QUALITY



A WORLDWIDE REPUTATION  
FOR SERVICE

ALL PROCESSES, SYSTEMS AND  
PROCEDURES ARE

**ISO9001**  
**COMPLIANT**  
LRQA APPROVED

For both in-house manufacturing  
and distribution

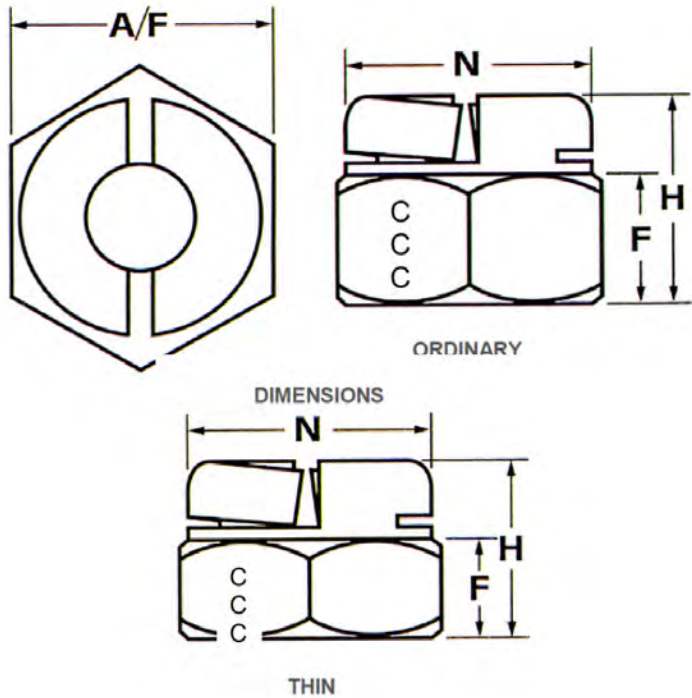
Aerotight® sources high quality raw materials with full mechanical and chemical certification. All processes are rigorously tested in house to assure products are Quality Assured to the highest standard. Quality Assurance of Aerotight® products has been approved by Lloyds Registered Quality Assurance, in compliance with ISO9001 2015 standards





# MATERIAL SPECS

- Stainless Steel 303 & 316 (A4)
- Stainless Steel A4-80
- Mild Steel 230 M07 Non-Leaded BS970
- Zinc & Clear Trivalent/Zinc & Yellow
- Passivate
- Brass BS 2874 CZ121



## 316 (A4) STAINLESS STEEL

Designed to resist highly corrosive environments and can be applied outdoors in places with high levels of atmospheric corrosion near the sea or in industrial environments. It also has uses in industries that work with chemicals, photography, food, and horticulture.

## RECOMMENDED PRACTICES

Two full threads should protrude through the nut when assembled on the screw.

Nuts shouldn't be used on damaged or interrupted threads.



## SPECIAL TURNED PARTS

Aerotight® manufacturing has an established reputation for producing quality precision turned parts and fasteners for a wide variety of industries including those mentioned overleaf.



## PRODUCTION CAPACITY

Ranges from 2-44mm diameter, available in tailored volumes and can be manufactured in many finishes.

## THE LEICESTER FACILITY

Located in the heart of the Midlands is the manufacturing plant where the Aerotight® nut is produced by a team with expertise in Aerotight® and special turned parts, as well as state of the art machinery which runs overnight.





# INDUSTRY APPLICATIONS

---



## SCIENCE

The Aerotight® self-locking nut has been used for high profile scientific experimentation such as the DarkSide 20k experiment into dark matter. The Aerotight was selected in A4 Stainless Steel due to the radio purity of the material and due to its' excellent quality / price ratio.

---



## WATER TREATMENT / OFF-SHORE

The Aerotight has been used for pumps and water treatment installations. The A4 grade Aerotight® nut is particularly suitable for coastal environments where atmospheric conditions are more severe.

---



## OEM'S

The heat and vibration resistant properties of the Aerotight® nut make it ideal for use in areas such as earth moving machinery and other similar applications that require clamping solutions for the emissions market.

---



## TRANSPORT / AUTOMOTIVE

Vibration resistance is very important for instance, for trackside railway maintenance, automotive applications such as Turbochargers and electric vehicles. The Aerotight® nut has been used for many years in these sectors.

---



## AGRICULTURE & FOOD

Agriculture & Food industries require a robust product like the Aerotight® self-locking nut, which can be used for various applications, including conveyor systems and cereal production lines.



# Aerotight®

THE ALL METAL SELF-LOCKING NUT

---

## CONTACT OUR TEAMS

---

### APEX SALES TEAM

#### RUGBY

---



01788 537979



[sales@apexstainless.com](mailto:sales@apexstainless.com)

#### BILSTON

---



01902 404909



[bilston@apexstainless.com](mailto:bilston@apexstainless.com)

#### LEEDS

---



01132 701123



[sales@pfsstainless.com](mailto:sales@pfsstainless.com)

---

### AEROTIGHT MANUFACTURING

2-4 BRADGATE STREET  
LEICESTER, LE4 0AW



0116 2530133



[sales@aerotight.com](mailto:sales@aerotight.com)

---

**AEROTIGHT® NUT IS DISTRIBUTED THROUGH  
APEX STAINLESS FASTENERS**