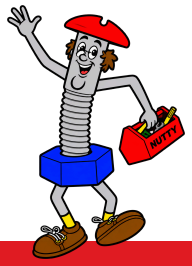
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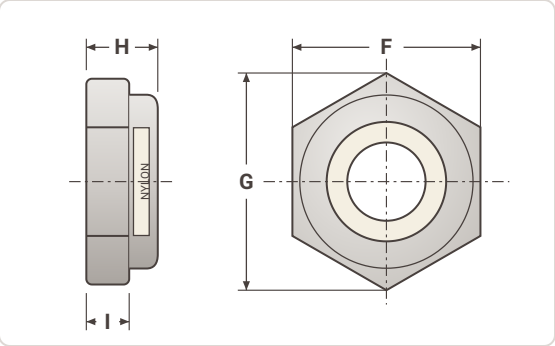
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PRODUCT DATA SHEET

Thin (Jam) Nylon Insert Lock Nuts – Inch Series

1.0 Dimensions As per ASME B18.16.6 (inches)



- **Also known as:** jam nylocs, thin nylon lock nuts or thin aircraft nuts.
- **Dimensions:** as per ASME B18.16.6 (style NTM #4–#10, style NTE 1/4"–1-1/2").
- **Thin pattern:** same hex as a standard nylon insert lock nut, but a lower overall height for tight spaces.
- **F** = across flats **H** = overall thickness **I** = hex side height **G** = across corners
- **Stocked in:** zinc plated steel and 18-8 stainless steel, UNC (coarse) and UNF (fine).

Nominal Size	F – Width Across Flats			H – Thickness		I – Side Height	G – Across Corners	Stocked Thread Series	
	Basic	Max	Min	Max	Min	Ref	Ref	Zinc Plated	Stainless
#4	1/4	0.251	0.243	0.124	0.094	0.075	0.268	–	–
#6	5/16	0.313	0.305	0.140	0.110	0.090	0.339	–	–
#8	11/32	0.345	0.336	0.187	0.157	0.110	0.374	–	–
#10	3/8	0.376	0.367	0.187	0.157	0.110	0.410	–	–
1/4	7/16	0.439	0.430	0.218	0.188	0.125	0.482	UNC / UNF	UNC / UNF
5/16	1/2	0.502	0.492	0.265	0.235	0.158	0.552	UNC / UNF	UNC / UNF
3/8	9/16	0.564	0.553	0.281	0.251	0.150	0.622	UNC / UNF	UNC / UNF
7/16	5/8	0.627	0.615	0.328	0.298	0.225	0.694	UNC / UNF	UNC / UNF
1/2	3/4	0.752	0.741	0.328	0.298	0.190	0.837	UNC / UNF	UNC / UNF
9/16	7/8	0.877	0.865	0.374	0.344	0.225	0.978	UNC	–
5/8	15/16	0.940	0.928	0.406	0.376	0.265	1.051	UNC / UNF	UNC / UNF
3/4	1-1/16	1.064	1.052	0.421	0.391	0.288	1.191	UNC / UNF	UNC / UNF
7/8	1-1/4	1.252	1.239	0.484	0.454	0.340	1.403	UNC / UNF	UNC
1	1-7/16	1.440	1.427	0.578	0.516	0.405	1.615	UNC / UNF	UNC
1-1/8	1-5/8	1.627	1.614	0.672	0.610	0.500	1.826	UNC / UNF	–
1-1/4	1-13/16	1.815	1.801	0.765	0.703	0.523	2.038	UNC / UNF	–
1-1/2	2-3/16	2.197	2.159	0.828	0.766	0.565	2.416	UNC / UNF	–

Dimensions in inches. Sizes without a stocked thread series are available on request – call or email for pricing.



ZINC PLATED STEEL



18-8 STAINLESS STEEL

2.0 Material & Mechanical Properties

Property	Zinc Plated Steel	18-8 Stainless Steel
Nut body material	Low carbon steel	18-8 (304) stainless steel
Specification	ASME B18.16.6, style NTE / NTM	ASTM F594 Group 1, condition CW Dimensions per ASME B18.16.6
Hardness	Rockwell C28 maximum	Rockwell B95 to C35
Locking insert	Nylon 6/6 ring	Nylon 6/6 ring
Thread class of fit	2B (UNC / UNF)	2B (UNC / UNF)

APPLICATION NOTES

- Thin (jam) pattern nylon insert nuts are for limited clearance applications, or where too few threads project to use a standard nylon insert nut. They are not intended as primary load-bearing nuts – use a standard (full height) nylon insert lock nut where load capacity is needed.
- Service temperature: nylon insert nuts are rated from -58°F to 248°F (-50°C to +120°C). For higher temperatures use an all-metal prevailing torque (Stover) lock nut.
- The bolt or stud should extend at least 1 to 2 full threads past the nut so the nylon insert fully engages the threads.
- Locking torque drops each time the nut is removed. For critical joints, replace nylon insert lock nuts rather than reusing them.
- Stainless steel nuts on stainless bolts can gall (seize) when tightened quickly. Tighten at a slow, even speed.

3.0 Surface Finish Zinc Plated / Stainless

Properties	Zinc Plated (Steel)	Stainless Steel (18-8)
Type	Trivalent (Cr+3), RoHS compliant	Plain – no coating
Color	Clear	Natural stainless
Minimum Coating Thickness	0.0001" / 3 microns or 0.0002" / 5 microns	–
Specification	ASTM F1941/F1941M Fe/Zn 3AN or Fe/Zn 5AN	ASTM F594 Group 1

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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