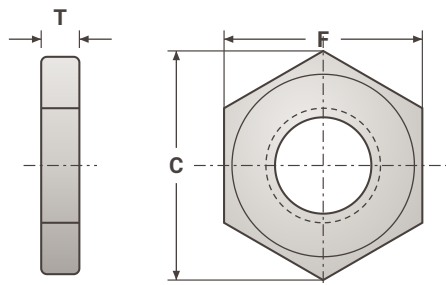




PRODUCT DATA SHEET

Hex Jam Nuts (Thin) – Inch Series

1.0 Dimensions As per ASME B18.2.2 (inches)



- **Dimensions:** as per ASME B18.2.2, hex jam nuts.
- **Thin nut:** thinner than a finished hex nut (approx. 60–70% of its thickness).
- **F** = width across flats **C** = width across corners **T** = thickness
- **Thread class of fit:** 2B
- **Stocked in:** Grade 2 zinc plated steel and 18-8 stainless steel, UNC (coarse) and UNF (fine).

Nominal Size	F – Width Across Flats			C – Across Corners		T – Thickness			Stocked Thread Series	
	Basic	Max	Min	Max	Min	Basic	Max	Min	Zinc Gr 2	Stainless
1/4	7/16	0.438	0.428	0.505	0.488	5/32	0.163	0.150	UNC / UNF	UNC / UNF
5/16	1/2	0.500	0.489	0.577	0.557	3/16	0.195	0.180	UNC / UNF	UNC / UNF
3/8	9/16	0.562	0.551	0.650	0.628	7/32	0.227	0.210	UNC / UNF	UNC / UNF
7/16	11/16	0.688	0.675	0.794	0.768	1/4	0.260	0.240	UNC / UNF	UNC / UNF
1/2	3/4	0.750	0.736	0.866	0.840	5/16	0.323	0.302	UNC / UNF	UNC / UNF
9/16	7/8	0.875	0.861	1.010	0.982	5/16	0.324	0.301	UNC / UNF	–
5/8	15/16	0.938	0.922	1.083	1.051	3/8	0.387	0.363	UNC / UNF	UNC / UNF
3/4	1-1/8	1.125	1.088	1.299	1.240	27/64	0.446	0.398	UNC / UNF	UNC / UNF
7/8	1-5/16	1.312	1.269	1.516	1.447	31/64	0.510	0.458	UNC / UNF	UNC / UNF
1	1-1/2	1.500	1.450	1.732	1.653	35/64	0.575	0.519	UNC / UNF	UNC / UNF
1-1/8	1-11/16	1.688	1.631	1.949	1.859	39/64	0.639	0.579	UNC / UNF	–
1-1/4	1-7/8	1.875	1.812	2.165	2.066	23/32	0.751	0.687	UNC / UNF	–
1-3/8	2-1/16	2.062	1.994	2.382	2.273	25/32	0.815	0.747	UNF	–
1-1/2	2-1/4	2.250	2.175	2.598	2.480	27/32	0.880	0.808	UNC / UNF	–
1-3/4	2-5/8	2.625	2.538	3.031	2.893	31/32	1.009	0.929	–	–
2	3	3.000	2.900	3.464	3.306	1-3/32	1.138	1.050	–	–

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



GRADE 2 ZINC PLATED STEEL



18-8 STAINLESS STEEL

2.0 Mechanical Properties

2.1 ZINC PLATED STEEL – GRADE 2, SAE J995 (HEX JAM NUTS)

Grade	Nominal Size	Proof Load Stress UNC & 8UN	Proof Load Stress UNF, 12UN & Finer
Grade 2	1/4" thru 1-1/2"	54,000 PSI	48,000 PSI

Note: Jam nuts are thinner than full hex nuts, so SAE J995 sets lower proof load stresses for them, based on the ratio of jam nut to hex nut minimum thickness. Proof load (lbs) = proof load stress × tensile stress area of the thread. Use a jam nut as a locking (jamming) nut against a full hex nut, not as the main load-carrying nut.

2.2 STAINLESS STEEL – ASTM F594

Type	Nominal Size	Condition	Rockwell Hardness	Grade Marking
304 (18-8)	1/4" to 5/8" incl.	CW1	B95 to C35	F594C
304 (18-8)	3/4" to 1-1/2" incl.	CW2	B80 to C35	F594D

Note: Stainless jam nuts are made from 18-8 (304) stainless steel to ASTM F594, Group 1. As thin nuts, they carry a lower proof load than full-thickness stainless hex nuts.

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 B633 SC1 Type III	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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