

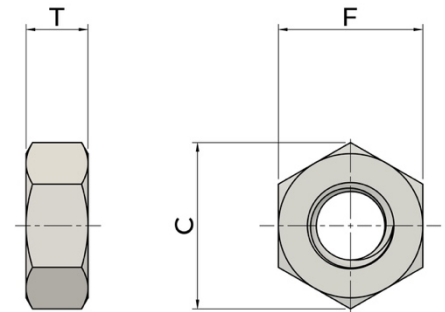
## PRODUCT DATA SHEET

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### Finished Hex Nuts - Inch Series

#### 1.0 Dimensions: As Per ASME B18.2.2.

Nominal Size or Basic Major Diameter of Thread	F		C		T	
	Width Across Flats		Width Across Corners		Thickness	
	Max	Min	Max	Min	Max	Min
1/4	0.438	0.428	0.505	0.488	0.226	0.212
5/16	0.500	0.489	0.577	0.557	0.273	0.258
3/8	0.563	0.551	0.650	0.628	0.337	0.320
7/16	0.688	0.675	0.794	0.768	0.385	0.365
1/2	0.750	0.736	0.866	0.840	0.448	0.427
9/16	0.875	0.861	1.010	0.982	0.496	0.473
5/8	0.938	0.922	1.083	1.051	0.559	0.535
3/4	1.125	1.088	1.299	1.240	0.665	0.617
7/8	1.312	1.269	1.516	1.447	0.776	0.724
1	1.500	1.450	1.732	1.653	0.887	0.831
1-1/8	1.688	1.631	1.949	1.859	0.999	0.939
1-1/4	1.875	1.812	2.165	2.066	1.094	1.030
1-3/8	2.062	1.994	2.382	2.273	1.206	1.138
1-1/2	2.250	2.175	2.598	2.480	1.317	1.245
1-5/8	2.430	2.350	2.805	2.679	1.416	1.364
1-3/4	2.625	2.538	3.031	2.893	1.540	1.460
1-7/8	2.813	2.722	3.247	3.103	1.651	1.567
2	3.000	2.900	3.464	3.306	1.763	1.675
2-1/4	3.375	3.263	3.897	3.719	1.986	1.890
2-1/2	3.750	3.625	4.330	4.133	2.209	2.105
3	4.500	4.350	5.196	4.959	2.654	2.534



**Notes:** Thread Class Of Fit : Plain and Zinc plated : 2B. Hot Dip Galvanized (HDG) : Over size tapped. Checked with special over size plug gage or HDG mating bolts.

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# Finished Hex Nuts - Inch Series

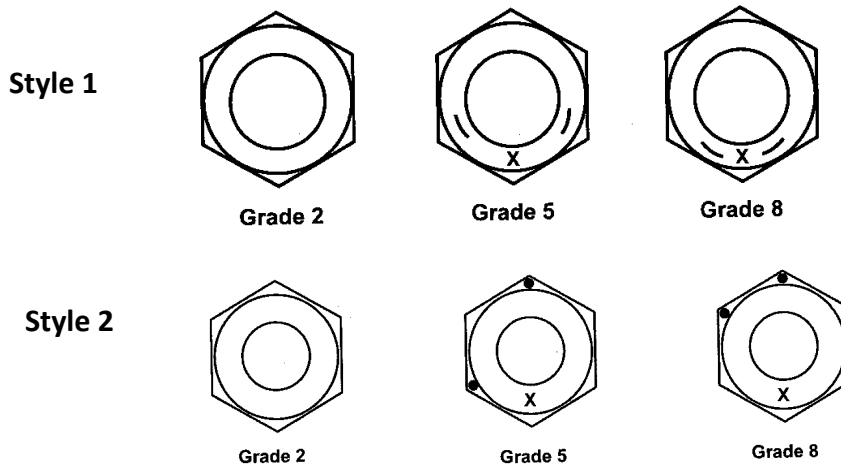
## 2.0 Mechanical Properties:

### 2.1 Steel - SAE J995

Classification		Hardness	Proof Load Strength	
Grade	Nominal Size		UNC & 8UN	UNF, 12UN & Finer
2	1/4" Thru 1-1/2 "	32 HRC Maximum	UNC & 8UN	UNF, 12UN & Finer
			90,000 PSI	80,000 PSI
5	1/4" Thru 1-1/2 "	32 HRC Maximum	1/4 " Thru 1 "	
			UNC & 8UN	UNF, 12UN & Finer
			120,000 PSI	109,000 PSI
			Over 1 " Thru 1-1/2 "	
UNC & 8UN	UNF, 12UN & Finer			
105,000 PSI	94,000 PSI			
8	1/4" Thru 1-1/2 "	1/4" Thru 5/8 " : 24 -32 HRC	All Sizes and All Thread Pitches 150,000 PSI	
		Over 5/8" Thru 1 " : 26 -34 HRC		
		Over 1" Thru 1-1/2 " : 26 -36 HRC		

Note: For sizes above 1-1/2 " mechanical properties may be derived from SAE J995

### 2.2 Steel Grade Marking:



Notes: The nuts will also have manufacturer's marking, in addition to the grade marking as shown above.



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### Finished Hex Nuts - Inch Series

#### 2.3 Stainless Steel - ASTM F594

Classification		Condition	Proof Load Strength ksi	Rockwell Hardness	Grade Marking
Type	Nominal Size				
304 (18-8)	1 / 4 to 5 / 8 incl	CW1	100 Minimum	B95 to C35	F594C
	3 / 4 to 1 - 1 / 2 incl	CW2	85 Minimum	B80 to C35	F594D
316	1 / 4 to 5 / 8 incl	CW1	100 Minimum	B95 to C35	F594G
	3 / 4 to 1 - 1 / 2 incl	CW2	85 Minimum	B80 to C35	F594H

(1Ksi = 1000 PSI)

Notes: The nuts will also have manufacturer's marking, in addition to the grade marking as shown above.

#### 3.0 Surface Finish:

Properties	Zinc	Zinc Yellow	Hot Dip Galvanized
Type	Trivalent (Cr+3)	Hexavalent (Cr+6) or Trivalent (Cr+3)	RoHS Compliant
Color	Clear	Yellow	
Minimum Coating Thickness	0.0001" / 3 Microns or 0.0002" / 5 Microns	0.0001 " /3 Microns or 0.0002" / 5 Microns	Sizes 3/8 " & Under : 0.0017" (43 microns). Sizes Over 3/8 " : 0.0020" (50 microns)
Specification	ASTM F1941 / F1941M. Fe/Zn 3AN or Fe/Zn 5AN. ASTM B633 SC1 Type III	ASTM F1941 / F1941M. Fe/Zn 3C or Fe/Zn 3CN or Fe/Zn 5C or Fe/Zn 5CN	ASTM F2329 / F2329M or ASTM A153/A153M

#### Notes For Hot Dip Galvanized Finish:

Hot Dip Galvanized nuts are tapped oversize after the galvanizing process is carried out. This is done to accommodate the thick hot dip galvanizing coating on the mating bolts. The oversize tapping allowance followed, is as per ASTM A563 standard.