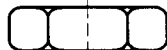


### FINISHED HEX NUTS

GRADE 2, A307  
 GRADE 5, SAE J-995  
 GRADE 8, SAE J-995



### HEX JAM NUTS



### HEAVY HEX NUTS

ASTM-A563 GRADE A  
 ASTM-A563 GRADE DH (A325)  
 ASTM-A194 GRADE 2H  
 ASTM-A194 GRADE 4 & 7

Nominal Size or Basic Major Diameter of Thread	THREADS PER INCH		HEX NUT (FINISHED)				HEAVY HEX NUTS			
	UNC	UNF	WIDTH ACROSS FLATS Nominal F	WIDTH ACROSS CORNERS Minimum G	THICKNESS H		WIDTH ACROSS FLATS Nominal F	WIDTH ACROSS CORNERS Minimum G	THICKNESS H	
					FULL	JAM			FULL	JAM
1/4	20	28	7/16	.488	7/32	5/32	1/2	.556	15/64	11/64
5/16	18	24	1/2	.557	17/64	3/16	9/16	.622	19/64	13/64
3/8	16	24	9/16	.628	21/64	7/32	11/16	.763	23/64	15/64
7/16	14	20	11/16	.768	3/8	1/4	3/4	.830	27/64	17/64
1/2	13	20	3/4	.840	7/16	5/16	7/8	.969	31/64	19/64
9/16	12	18	7/8	.982	31/64	5/16	15/16	1.037	25/64	21/64
5/8	11	18	15/16	1.051	35/64	3/8	1 1/16	1.175	39/64	23/64
3/4	10	16	1 1/8	1.240	41/64	27/64	1 1/4	1.382	47/64	27/64
7/8	9	14	1 5/16	1.447	3/4	31/64	1 7/16	1.589	55/64	31/64
1	8	12 - 14	1 1/2	1.653	55/64	35/64	1 5/8	1.796	63/64	35/64
1 1/8	7	12	1 11/16	1.859	31/32	39/64	1 13/16	2.002	1 7/64	39/64
1 1/4	7	12	1 7/8	2.066	1 1/16	23/32	2	2.209	1 7/32	23/32
1 3/8	6	12	2 1/16	2.273	1 11/64	25/32	2 3/16	2.416	1 11/32	25/32
1 1/2	6	12	2 1/4	2.480	1 9/32	27/32	2 3/8	2.622	1 15/32	27/32
1 5/8	5 1/2	12	2 7/16	2.686	1 25/64	29/32	2 9/16	2.828	1 19/32	29/32
1 3/4	5	12	2 5/8	2.893	1 1/2	31/32	2 3/4	3.035	1 23/32	31/32
1 7/8	5	12	2 13/16	3.100	1 39/64	1 1/32	2 15/16	3.242	1 27/32	1 1/32
2	4 1/2	12	3	3.306	1 23/32	1 3/32	3 1/8	3.449	1 31/32	1 3/32
2 1/4	4 1/2	12	3 3/8	3.719	1 59/64	1 13/64	3 1/2	3.862	2 13/64	1 13/64
2 1/2	4	12	3 3/4	4.133	2 9/64	1 29/64	3 7/8	4.275	2 29/64	1 29/64
2 3/4	4	12	4 1/8	4.546	2 23/64	1 37/64	4 1/4	4.688	2 45/64	1 37/64
3	4	12	4 1/2	4.959	2 37/64	1 45/64	4 5/8	5.102	2 61/64	1 45/64
3 1/4	4						5	5.515	3 3/16	1 13/16
3 1/2	4						5 3/8	5.928	3 7/16	1 15/16
3 3/4	4						5 3/4	6.341	3 11/16	2 1/16
4	4						6 1/8	6.755	3 15/16	2 3/16

### MATERIAL SPECIFICATIONS FOR GRADES 2, 5 & 8 FINISHED HEX NUTS

#### MECHANICAL REQUIREMENTS

#### CHEMICAL COMPOSITION REQUIREMENTS

GRADE	NUT DIAMETER	PROOF LOAD STRESS PSI		ROCKWELL HARDNESS	C MAX.	MN MIN.	P MAX.	S MAX.
		UNC 8 UN	UNF 12 UN & FINER					
2b	UP THRU 1/2	69,000	69,000	C32 MAX.	0.47	-	0.12	0.15
	>1/2 THRU 3/4	64,000	64,000					
	>3/4 AND UP	55,000	55,000					
5	1/4 THRU 1	120,000	109,000	C32 MAX.	0.55	0.30	0.05	0.15
	>1 THRU 1 1/2	105,000	94,000					
	c. > 1 1/2	90,000	75,000					
8	1/4 THRU 5/8	150,000	150,000	C24-C32 C26-C34 C26-C36	0.55	0.30	0.04	0.05
	>5/8 THRU 1	150,000	150,000					
	> 1 THRU 1 1/2	150,000	150,000					

### HEAVY HEX NUTS

#### MECHANICAL REQUIREMENTS

#### CHEMICAL COMPOSITION REQUIREMENTS

SPECIFICATION	NUT STYLE	GRADE	PROOF LOAD (PSI)	HARDNESS (ROCKWELL)	C		MN		P MAX.	S MAX.	SI		MO	
					MIN.	MAX.	MIN.	MAX.			MIN.	MAX.	MIN.	MAX.
A194	HEAVY HEX	2*	150,000	B84 MIN.	0.40	-	-	-	0.040	0.05	-	-	-	-
A194	HEAVY HEX	2H*	175,000	C24-C38	0.40	-	-	-	0.040	0.05	-	-	-	-
A194	HEAVY HEX	4*	175,000	C24-C38	0.40	0.50	0.70	0.90	0.035	0.04	0.15	0.35	0.20	0.30
A325-76	HEAVY HEX	-	144,000	1/4 - 1 1/8 C38 MAX 1 1/4 - 1 1/2 B78-C38	-	-	-	-	0.12	0.23	-	-	-	-
A563	HEAVY HEX	C*	144,000	B78-C38	-	0.55	-	-	0.12	0.15	-	-	-	-
A563	HVY HX UNC	A	100,000	1/4 - 4	0.55	-	-	-	0.12	0.15	-	-	-	-