

Proof Load

Proof Load values for common nuts.

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Size	ASTM A194 Grade 2H Heavy Hex Nuts		ASTM A563 Grade DH Heavy Hex Nuts		ASTM A563 Grade DH Heavy Hex Nuts		ASTM A563 Grade C Heavy Hex Nuts	
	Plain, Plated, & HDG		Plain and Plated		Hot-Dip Galvanized		Plain and Plated	
	PSI	Pounds	PSI	Pounds	PSI	Pounds	PSI	Pounds
NC Threads								
1/4-20	175,000	5565						
5/16-18	175,000	9170						
3/8-16	175,000	13,562						
7/16-14	175,000	18,602						
1/2-13	175,000	24,832	175,000	24,832	150,000	21,285	144,000	20,433
9/16-12								
5/8-11	175,000	39,550	175,000	39,550	150,000	33,900	144,000	32,544
3/4-10	175,000	58,450	175,000	58,450	150,000	50,100	144,000	49,536
7/8-9	175,000	80,850	175,000	80,850	150,000	69,300	144,000	66,528
1-8	175,000	106,050	175,000	106,050	150,000	90,900	144,000	87,264
1 1/8-7	175,000	133,525	175,000	133,525	150,000	114,450	144,000	109,872
1 1/4-7	175,000	169,575	175,000	169,575	150,000	145,350	144,000	139,536
1 3/8-6	175,000	202,125	175,000	202,125	150,000	173,250	144,000	166,320
1 1/2-6	175,000	245,875	175,000	245,875	150,000	210,750	144,000	202,320
1 3/4-5	175,000	332,500	175,000	332,500	150,000	285,000	144,000	273,600
2-4 1/2	175,000	437,500	175,000	437,500	150,000	375,000	144,000	360,000
NF Threads								
1/4-28							125,000	4550
5/16-24							125,000	7250
3/8-24							125,000	11,000
7/16-20							125,000	14,850
1/2-20							125,000	20,000
9/16-18							125,000	25,400
5/8-18							125,000	32,000
3/4-16							125,000	46,650
7/8-14							125,000	63,650
1-12							125,000	82,900
1-14							125,000	84,900
1 1/8-12							125,000	107,000
1 1/4-12							125,000	134,150
1 3/8-12							125,000	164,400
1 1/2-12							125,000	197,650

Proof Load:

Axially-applied load using a bolt or mandrel that must be supported by a nut without evidence of thread stripping or rupture.

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