

CARBON STEEL
UNC/UNF HEX NUTS

UNC HEX NUTS					
DIAMETER	TPI	STRESS AREA (mm²)	MINIMUM PROOF LOAD (lbf)		
			GRADE 2	GRADE 5	GRADE 8
1/4	20	0.0318	2850	3800	4750
5/16	18	0.0524	4700	6300	7850
3/8	16	0.0775	7000	9300	11600
7/16	14	0.1063	9550	12800	15900
1/2	13	0.1419	12800	17000	21300
9/16	12	0.182	16400	21800	27300
5/8	11	0.226	20300	27100	33900
3/4	10	0.334	30100	40100	50100
7/8	9	0.462	41600	55400	69300
1	8	0.606	54500	72700	90900
1-1/8	7	0.763	68700	80100	114000
1-1/4	7	0.969	87200	102000	145000
1-3/8	6	1.155	104000	121000	173000
1-1/2	6	1.405	126000	148000	211000

Reference SAE 995 2017

UNF HEX NUTS					
DIAMETER	TPI	STRESS AREA (mm²)	MINIMUM PROOF LOAD (lbf)		
			GRADE 2	GRADE 5	GRADE 8
1/4	28	0.0364	2900	4000	5460
5/16	24	0.058	4650	6300	8700
3/8	24	0.0878	7000	9550	13150
7/16	20	0.1187	9500	13000	17800
1/2	20	0.1599	12800	17450	24000
9/16	18	0.203	16250	22150	30450
5/8	18	0.256	20500	27900	38400
3/4	16	0.373	29850	40650	55950
7/8	14	0.509	40700	55500	76350
1	12	0.663	53050	72300	99450
1-1/8	12	0.856	68500	80450	128400
1-1/4	12	1.073	85850	100850	160950
1-3/8	12	1.315	105200	123800	197250
1-1/2	12	1.581	126500	148600	237150

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UNC/UNF HEX NUTS

UNC HEX NUTS					
DIAMETER	TPI	STRESS AREA (mm²)	STRESS UNDER PROOF LOAD (lbf/in²)		
			GRADE 2	GRADE 5	GRADE 8
1/4	20	0.0318	90000	120000	150000
5/16	18	0.0524	90000	120000	150000
3/8	16	0.0775	90000	120000	150000
7/16	14	0.1063	90000	120000	150000
1/2	13	0.1419	90000	120000	150000
9/16	12	0.182	90000	120000	150000
5/8	11	0.226	90000	120000	150000
3/4	10	0.334	90000	120000	150000
7/8	9	0.462	90000	120000	150000
1	8	0.606	90000	120000	150000
1-1/8	7	0.763	90000	105000	150000
1-1/4	7	0.969	90000	105000	150000
1-3/8	6	1.155	90000	105000	150000
1-1/2	6	1.405	90000	105000	150000

Reference SAE 995 2017

UNF HEX NUTS					
DIAMETER	TPI	STRESS AREA (mm²)	STRESS UNDER PROOF LOAD (lbf/in²)		
			GRADE 2	GRADE 5	GRADE 8
1/4	28	0.0364	80000	109000	150000
5/16	24	0.058	80000	109000	150000
3/8	24	0.0878	80000	109000	150000
7/16	20	0.1187	80000	109000	150000
1/2	20	0.1599	80000	109000	150000
9/16	18	0.203	80000	109000	150000
5/8	18	0.256	80000	109000	150000
3/4	16	0.373	80000	109000	150000
7/8	14	0.509	80000	109000	150000
1	12	0.663	80000	109000	150000
1-1/8	12	0.856	80000	94000	150000
1-1/4	12	1.073	80000	94000	150000
1-3/8	12	1.315	80000	94000	150000
1-1/2	12	1.581	80000	94000	150000

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