

CARBON STEEL
UNC/UNF HEX BOLTS

UNC HEX BOLTS					
DIAMETER	TPI	STRESS AREA (mm²)	MINIMUM ULTIMATE TENSILE LOAD (lbf)		
			GRADE 2	GRADE 5	GRADE 8
1/4	20	0.0318	2350	3800	4750
5/16	18	0.0524	3900	6300	7850
3/8	16	0.0775	5750	9300	11600
7/16	14	0.1063	7850	12800	15900
1/2	13	0.1419	10500	17000	21300
9/16	12	0.182	13500	21800	27300
5/8	11	0.226	16700	27100	33900
3/4	10	0.334	24700	40100	50100
7/8	9	0.462	27700	55400	69300
1	8	0.606	36400	72700	90900
1-1/8	7	0.763	45800	80100	114400
1-1/4	7	0.969	58100	101700	145400
1-3/8	6	1.155	69300	121300	173200
1-1/2	6	1.405	84300	147500	210800

Reference SAE J429 2014

UNF HEX BOLTS					
DIAMETER	TPI	STRESS AREA (mm²)	MINIMUM ULTIMATE TENSILE LOAD (lbf)		
			GRADE 2	GRADE 5	GRADE 8
1/4	28	0.0364	2700	4350	5450
5/16	24	0.058	4300	6950	8700
3/8	24	0.0878	6500	10500	13200
7/16	20	0.1187	8800	14200	17800
1/2	20	0.1599	11800	19200	24000
9/16	18	0.203	15000	24400	30400
5/8	18	0.256	18900	30700	38400
3/4	16	0.373	27600	44800	56000
7/8	14	0.509	30500	61100	76400
1	12	0.663	39800	79600	99400
1-1/8	12	0.856	51400	89900	128400
1-1/4	12	1.073	64400	112700	161000
1-3/8	12	1.315	78900	138100	197200
1-1/2	12	1.581	94900	166000	237200

Reference SAE J429 2014

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UNC/UNF HEX BOLTS

UNC HEX BOLTS (Full-Size Test)					
DIAMETER	TPI	STRESS AREA (mm ²)	MINIMUM TENSILE STRENGTH (lbf/in ²)		
			GRADE 2	GRADE 5	GRADE 8
1/4	20	0.0318	74000	120000	150000
5/16	18	0.0524	74000	120000	150000
3/8	16	0.0775	74000	120000	150000
7/16	14	0.1063	74000	120000	150000
1/2	13	0.1419	74000	120000	150000
9/16	12	0.182	74000	120000	150000
5/8	11	0.226	74000	120000	150000
3/4	10	0.334	74000	120000	150000
7/8	9	0.462	60000	120000	150000
1	8	0.606	60000	120000	150000
1-1/8	7	0.763	60000	105000	150000
1-1/4	7	0.969	60000	105000	150000
1-3/8	6	1.155	60000	105000	150000
1-1/2	6	1.405	60000	105000	150000

Reference SAE J429

UNF HEX BOLTS (Full-Size Test)					
DIAMETER	TPI	STRESS AREA (mm ²)	MINIMUM TENSILE STRENGTH (lbf/in ²)		
			GRADE 2	GRADE 5	GRADE 8
1/4	28	0.0364	74000	120000	150000
5/16	24	0.058	74000	120000	150000
3/8	24	0.0878	74000	120000	150000
7/16	20	0.1187	74000	120000	150000
1/2	20	0.1599	74000	120000	150000
9/16	18	0.203	74000	120000	150000
5/8	18	0.256	74000	120000	150000
3/4	16	0.373	74000	120000	150000
7/8	14	0.509	60000	120000	150000
1	12	0.663	60000	120000	150000
1-1/8	12	0.856	60000	105000	150000
1-1/4	12	1.073	60000	105000	150000
1-3/8	12	1.315	60000	105000	150000
1-1/2	12	1.581	60000	105000	150000

Reference SAE J429

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UNC HEX BOLTS					
DIAMETER	TPI	STRESS AREA (mm²)	MINIMUM PROOF LOAD (lbf)		
			GRADE 2	GRADE 5	GRADE 8
1/4	20	0.0318	1750	2700	3800
5/16	18	0.0524	2900	4450	6300
3/8	16	0.0775	4250	6600	9300
7/16	14	0.1063	5850	9050	12800
1/2	13	0.1419	7800	12100	17000
9/16	12	0.182	10000	15500	21800
5/8	11	0.226	12400	19200	27100
3/4	10	0.334	18400	28400	40100
7/8	9	0.462	15200	39300	55400
1	8	0.606	20000	51500	72700
1-1/8	7	0.763	25200	56500	91600
1-1/4	7	0.969	32000	71700	116300
1-3/8	6	1.155	38100	85500	138600
1-1/2	6	1.405	46400	104000	168600

Reference SAE J429

UNF HEX BOLTS					
DIAMETER	TPI	STRESS AREA (mm²)	MINIMUM PROOF LOAD (lbf)		
			GRADE 2	GRADE 5	GRADE 8
1/4	28	0.0364	2000	3100	4350
5/16	24	0.058	3200	4900	6950
3/8	24	0.0878	4800	7450	10500
7/16	20	0.1187	6550	10100	14200
1/2	20	0.1599	8800	13600	19200
9/16	18	0.203	11200	17300	24400
5/8	18	0.256	14100	21800	30700
3/4	16	0.373	20500	31700	44800
7/8	14	0.509	16800	43300	61100
1	12	0.663	21900	56400	79600
1-1/8	12	0.856	28200	63300	102700
1-1/4	12	1.073	35400	79400	128800
1-3/8	12	1.315	43400	97300	157800
1-1/2	12	1.581	52200	117000	189700

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UNC HEX BOLTS (Full-Size Test)					
DIAMETER	TPI	STRESS AREA (mm²)	NOMINAL STRESS UNDER PROOF LOAD (lbf/in²)		
			GRADE 2	GRADE 5	GRADE 8
1/4	20	0.0318	55000	85000	120000
5/16	18	0.0524	55000	85000	120000
3/8	16	0.0775	55000	85000	120000
7/16	14	0.1063	55000	85000	120000
1/2	13	0.1419	55000	85000	120000
9/16	12	0.182	55000	85000	120000
5/8	11	0.226	55000	85000	120000
3/4	10	0.334	55000	85000	120000
7/8	9	0.462	33000	85000	120000
1	8	0.606	33000	85000	120000
1-1/8	7	0.763	33000	74000	120000
1-1/4	7	0.969	33000	74000	120000
1-3/8	6	1.155	33000	74000	120000
1-1/2	6	1.405	33000	74000	120000

Reference SAE J429

UNF HEX BOLTS (Full-Size Test)					
DIAMETER	TPI	STRESS AREA (mm²)	NOMINAL STRESS UNDER PROOF LOAD (lbf/in²)		
			GRADE 2	GRADE 5	GRADE 8
1/4	28	0.0364	55000	85000	120000
5/16	24	0.058	55000	85000	120000
3/8	24	0.0878	55000	85000	120000
7/16	20	0.1187	55000	85000	120000
1/2	20	0.1599	55000	85000	120000
9/16	18	0.203	55000	85000	120000
5/8	18	0.256	55000	85000	120000
3/4	16	0.373	55000	85000	120000
7/8	14	0.509	33000	85000	120000
1	12	0.663	33000	85000	120000
1-1/8	12	0.856	33000	74000	120000
1-1/4	12	1.073	33000	74000	120000
1-3/8	12	1.315	33000	74000	120000
1-1/2	12	1.581	33000	74000	120000

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