

Standard Threads Proof Load, Yield, & Tensile Chart

Major Diameter	Thread Size	Tensile Area in ²	Grade 5						Grade 8					
			Proof		Yield		Tensile		Proof		Yield		Tensile	
			(lbs)	(kN)	(lbs)	(kN)	(lbs)	(kN)	(lbs)	(kN)	(lbs)	(kN)	(lbs)	(kN)
1/4	1/4-20	0.0318	2703	12.0	2926	13.0	3816	17.0	3816	17.0	4134	18.4	4770	21.2
	1/4-28	0.0364	3094	13.8	3349	14.9	4368	19.4	4368	19.4	4732	21.0	5460	24.3
5/16	5/16-18	0.0524	4454	19.8	4821	21.4	6288	28.0	6288	28.0	6812	30.3	7860	35.0
	5/16-24	0.0580	4930	21.9	5336	23.7	6960	31.0	6960	31.0	7540	33.5	8700	38.7
3/8	3/8-16	0.0775	6588	29.3	7130	31.7	9300	41.4	9300	41.4	10075	44.8	11625	51.7
	3/8-24	0.0878	7463	33.2	8078	35.9	10536	46.9	10536	46.9	11414	50.8	13170	58.6
7/16	7/16-14	0.1063	9036	40.2	9780	43.5	12756	56.7	12756	56.7	13819	61.5	15945	70.9
	7/16-20	0.1187	10090	44.9	10920	48.6	14244	63.4	14244	63.4	15431	68.6	17805	79.2
1/2	1/2-13	0.1419	12062	53.7	13055	58.1	17028	75.7	17028	75.7	18447	82.1	21285	94.7
	1/2-20	0.1599	13592	60.5	14711	65.4	19188	85.4	19188	85.4	20787	92.5	23985	106.7
9/16	9/16-12	0.1820	15470	68.8	16744	74.5	21840	97.1	21840	97.1	23660	105.2	27300	121.4
	9/16-18	0.2030	17255	76.8	18676	83.1	24360	108.4	24360	108.4	26390	117.4	30450	135.4
5/8	5/8-11	0.2260	19210	85.5	20792	92.5	27120	120.6	27120	120.6	29380	130.7	33900	150.8
	5/8-18	0.2560	21760	96.8	23552	104.8	30720	136.6	30720	136.6	33280	148.0	38400	170.8
3/4	3/4-10	0.3340	28390	126.3	30728	136.7	40080	178.3	40080	178.3	43420	193.1	50100	222.9
	3/4-16	0.3730	31705	141.0	34316	152.6	44760	199.1	44760	199.1	48490	215.7	55950	248.9
7/8	7/8-9	0.4620	39270	174.7	42504	189.1	55440	246.6	55440	246.6	60060	267.2	69300	308.3
	7/8-16	0.5090	43265	192.5	46828	208.3	61080	271.7	61080	271.7	66170	294.3	76350	339.6
1	1-8	0.6060	51510	229.1	55752	248.0	72720	323.5	72720	323.5	78780	350.4	90900	404.3
	1-12	0.6630	56355	250.7	60996	271.3	79560	353.9	79560	353.9	86190	383.4	99450	442.4