



## Allthread Properties

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Minimum Stress Under Proof Load

### UNC ALLTHREAD - MINIMUM STRESS UNDER PROOF LOAD (lbf/in<sup>2</sup>)

Nominal Size	TPI	Stress Area in <sup>2</sup>	Grade		Grade 8	Sampsonrod <sup>®</sup>	Hobrod <sup>™</sup>
			2	5			
1/4"	20	0.0318	55,000	85,000	120,000	85,000	120,000
5/16"	18	0.0524	55,000	85,000	120,000	85,000	120,000
3/8"	16	0.0775	55,000	85,000	120,000	85,000	120,000
7/16"	14	0.1063	55,000	85,000	120,000	85,000	120,000
1/2"	13	0.1419	55,000	85,000	120,000	85,000	120,000
9/16"	12	0.1820	55,000	85,000	120,000	85,000	120,000
5/8"	11	0.2260	55,000	85,000	120,000	85,000	120,000
3/4"	10	0.3340	55,000	85,000	120,000	85,000	120,000
7/8"	9	0.4620	33,000	85,000	120,000	85,000	120,000
1"	8	0.6060	33,000	85,000	120,000	85,000	120,000
1-1/8"	7	0.7630	33,000	74,000	120,000	74,000	120,000
1-1/4"	7	0.9690	33,000	74,000	120,000	74,000	120,000
1-3/8"	6	1.1550	33,000	74,000	120,000	74,000	120,000
1-1/2"	6	1.4050	33,000	74,000	120,000	74,000	120,000
1-3/4"	5	1.9000	33,000	74,000	120,000	74,000	120,000
2"	4.5	2.5000	33,000	74,000	120,000	74,000	120,000
2-1/4"	4.5	3.2500	33,000	74,000	120,000	74,000	120,000





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## Minimum Tensile Stress

### UNC ALLTHREAD - MINIMUM TENSILE STRESS (lbf/in<sup>2</sup>)

Nominal Size	TPI	Stress Area in <sup>2</sup>	Grade			Sampsonrod®	Hobrod™
			2	5	8		
1/4"	20	0.0318	74,000	120,000	150,000	120,000	150,000
5/16"	18	0.0524	74,000	120,000	150,000	120,000	150,000
3/8"	16	0.0775	74,000	120,000	150,000	120,000	150,000
7/16"	14	0.1063	74,000	120,000	150,000	120,000	150,000
1/2"	13	0.1419	74,000	120,000	150,000	120,000	150,000
9/16"	12	0.1820	74,000	120,000	150,000	120,000	150,000
5/8"	11	0.2260	74,000	120,000	150,000	120,000	150,000
3/4"	10	0.3340	74,000	120,000	150,000	120,000	150,000
7/8"	9	0.4620	60,000	120,000	150,000	120,000	150,000
1"	8	0.6060	60,000	120,000	150,000	120,000	150,000
1-1/8"	7	0.7630	60,000	105,000	150,000	105,000	150,000
1-1/4"	7	0.9690	60,000	105,000	150,000	105,000	150,000
1-3/8"	6	1.1550	60,000	105,000	150,000	105,000	150,000
1-1/2"	6	1.4050	60,000	105,000	150,000	105,000	150,000
1-3/4**	5	1.9000	60,000	105,000	150,000	105,000	150,000
2**	4.5	2.5000	60,000	105,000	150,000	105,000	150,000
2-1/4**	4.5	3.2500	60,000	105,000	150,000	105,000	150,000

\* Extrapolated





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Minimum Proof Load

### UNC ALLTHREAD - MINIMUM PROOF LOAD (lbf)

Nominal Size	TPI	Stress Area in <sup>2</sup>	Grade			Sampsonrod®	Hobrod™
			2	5	8		
1/4"	20	0.0318	1,749	2,703	3,816	2,703	-
5/16"	18	0.0524	2,882	4,454	6,288	4,454	-
3/8"	16	0.0775	4,263	6,588	9,300	6,588	-
7/16"	14	0.1063	5,847	9,036	12,756	9,036	12,756
1/2"	13	0.1419	7,805	12,062	17,028	12,062	17,028
9/16"	12	0.1820	10,010	15,470	21,840	15,470	-
5/8"	11	0.2260	12,430	19,210	27,120	19,210	27,120
3/4"	10	0.3340	18,370	28,390	40,080	28,390	40,080
7/8"	9	0.4620	15,246	39,270	55,440	39,270	55,440
1"	8	0.6060	19,998	51,510	72,720	51,510	72,720
1-1/8"	7	0.7630	25,179	56,462	91,560	56,462	-
1-1/4"	7	0.9690	31,977	71,706	116,280	71,706	-
1-3/8"	6	1.1550	38,115	85,470	138,600	85,470	-
1-1/2"	6	1.4050	46,365	103,970	168,600	103,970	-
1-3/4**	5	1.9000	62,700	140,600	228,000	140,600	-
2**	4.5	2.5000	82,500	185,000	300,000	185,000	-
2-1/4**	4.5	3.2500	107,250	240,500	390,000	240,500	-





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Minimum Ultimate Tensile Load

### UNC ALLTHREAD - MINIMUM ULTIMATE TENSILE LOAD (lbf)

Nominal Size	TPI	Stress Area in <sup>2</sup>	Grade			Sampsonrod <sup>®</sup>	Hobrod <sup>™</sup>
			2	5	8		
1/4"	20	0.0318	2,353	3,816	4,770	-	-
5/16"	18	0.0524	3,878	6,288	7,860	-	-
3/8"	16	0.0775	5,735	9,300	11,625	-	-
7/16"	14	0.1063	7,866	12,756	15,945	12,756	15,945
1/2"	13	0.1419	10,501	17,028	21,285	17,028	21,285
9/16"	12	0.1820	13,468	21,840	27,300	21,840	27,300
5/8"	11	0.2260	16,724	27,120	33,900	27,120	33,900
3/4"	10	0.3340	24,716	40,080	50,100	40,080	50,100
7/8"	9	0.4620	27,720	55,440	69,300	55,440	69,300
1"	8	0.6060	36,360	72,720	90,900	72,720	90,900
1-1/8"	7	0.7630	45,780	80,115	114,450	80,115	114,450
1-1/4"	7	0.9690	58,140	101,745	145,350	101,745	145,350
1-3/8"	6	1.1550	69,300	121,275	173,250	121,275	173,250
1-1/2"	6	1.4050	84,300	147,525	210,750	147,525	210,750
1-3/4**	5	1.9000	114,000	199,500	285,000	199,500	285,000
2**	4.5	2.5000	150,000	262,500	375,000	262,500	375,000
2-1/4**	4.5	3.2500	195,000	341,250	487,500	341,250	487,500

\* Extrapolated

