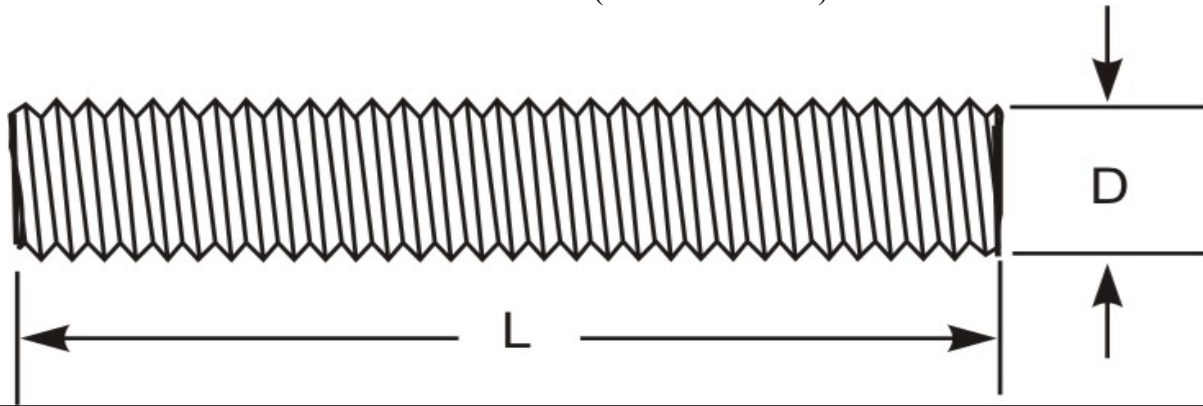


## Threaded Rod (3/4 and smaller)



THREAD DATA		
<b>Size:</b> 1/2	<b>Threads per in.:</b> 13	<b>Series Designation:</b> UNC
<b>Thread Class or Type:</b> 1A	<b>Major Diameter:</b> 0.4985 - 0.4822	<b>Pitch and Functional Dia.:</b> 0.4485 - 0.4411
<b>Tensile Stress Area:</b> 0.1419	<b>Standard:</b> ASME B1.1 - 2003 (R2008)	
DIMENSIONAL DATA		
<b>Group:</b> Threaded Rod-Inch	<b>Type:</b> Threaded Rod (3/4 and smaller)	<b>Standard:</b> ASME B18.31.3 - 2014
<b>Size:</b> 1/2	<b>TPI:</b> 13	<b>Nominal:</b> 0.5
<b>Ends:</b> Sheared	<b>L - Length:</b> 12 foot	<b>Length Tolerance:</b> +/- 1/2
PHYSICAL REQUIREMENTS		
<b>Nominal:</b> 0.5	<b>Standard:</b> ASTM A307A-2014	<b>Typical Materials:</b> low carbon steel, 1006 through 1022
<b>Hardness:</b> HRB 69 - 100	<b>Tensile Load, Min. (lbf):</b> 8,514	<b>Yield PSI, 2% Offset, Machined Specimen:</b> 36,000
<b>Elongation, min. %, Machined Specimen:</b> 18	<b>Tensile Strength, Min. (psi):</b> 60,000	<b>Calculated Shear Load-THREADS (ref.)(lbf):</b> 4,257
<b>Tightening Torque <sup>1</sup>:</b> 35 ft.lbf, 421 in.lbf, 47.6 Nm		
FINISH DATA		
<b>Finish:</b> Zinc & Clear, non-hexavalent/Cr(VI) free - .0001"/ 3µm	<b>K factor (ref. DIN 946):</b> 0.22	<b>Standard:</b> ASTM F1941/F1941M-2016, Fe/Zn 3AN

<sup>1</sup> These torque values are based on K factors determined using DIN 946, tightening tension of 75% of the yield strength, and the calculation formula T=KDP. These values are advisory only. The torque for assembling critical joints should be determined and/or verified through actual experimentation by the user. The IFI is not responsible for any losses or claims resulting from the use of these values.

