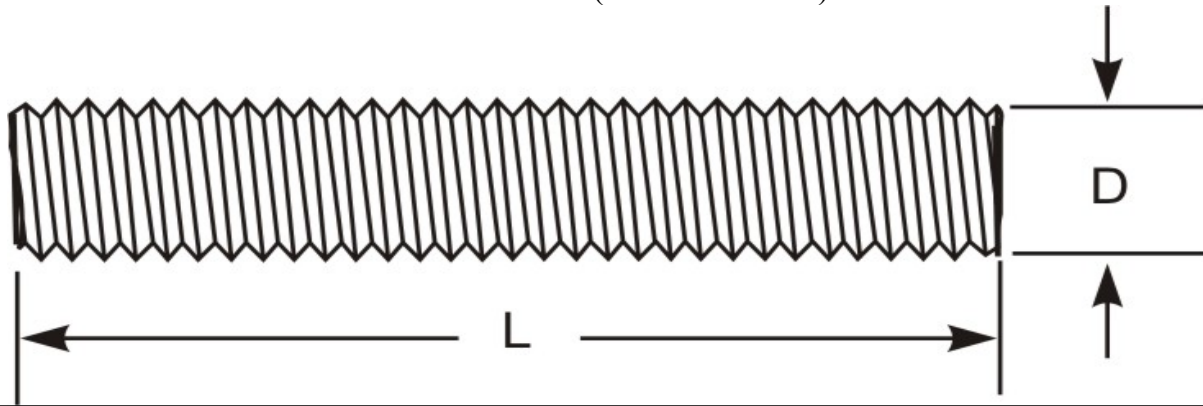


Threaded Rod (3/4 and smaller)



THREAD DATA		
Size: 1/2	Threads per in.: 13	Series Designation: UNC
Thread Class or Type: 1A	Major Diameter: 0.4985 - 0.4822	Pitch and Functional Dia.: 0.4485 - 0.4411
Tensile Stress Area: 0.1419	Standard: ASME B1.1 - 2003 (R2008)	
DIMENSIONAL DATA		
Group: Threaded Rod-Inch	Type: Threaded Rod (3/4 and smaller)	Standard: ASME B18.31.3 - 2014
Size: 1/2	TPI: 13	Nominal: 0.5
Ends: Sheared	L - Length: 6 foot	Length Tolerance: +/- 1/2
PHYSICAL REQUIREMENTS		
Nominal: 0.5	Standard: ASTM A307A-2014	Typical Materials: low carbon steel, 1006 through 1022
Hardness: HRB 69 - 100	Tensile Load, Min. (lbf): 8,514	Yield PSI, 2% Offset, Machined Specimen: 36,000
Elongation, min. %, Machined Specimen: 18	Tensile Strength, Min. (psi): 60,000	Calculated Shear Load-THREADS (ref.)(lbf): 4,257
Tightening Torque ¹ : 35 ft.lbf, 421 in.lbf, 47.6 Nm		
FINISH DATA		
Finish: Zinc & Clear, non-hexavalent/Cr(VI) free - .0001"/ 3µm	K factor (ref. DIN 946): 0.22	Standard: ASTM F1941/F1941M-2016, Fe/Zn 3AN

¹ 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.

