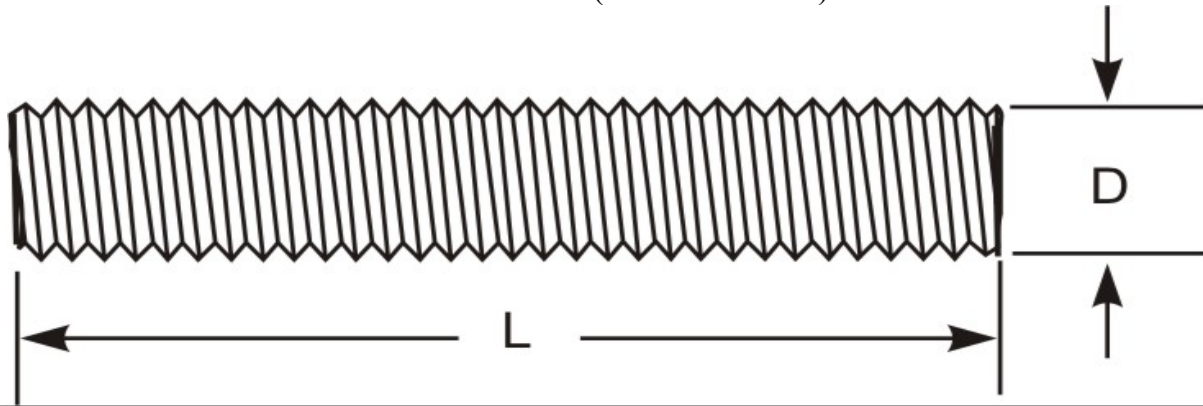


## Threaded Rod (3/4 and smaller)



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 F593-2013a, Condition CW1_18-8/304	Typical Materials: stainless steel, 304, 304L, 305, 384, 18-9LW, 302HQ
Hardness: HRB 95 - C32	Tensile Load, Min. (lbf): 14,190	Tensile Load, Max. (lbf): 21,285
Yield PSI, 2% Offset, Machined Specimen: 65,000	Elongation, min. %, Machined Specimen: 20% in 4D	Tensile Strength, Min. (psi): 100,000
Tensile Strength, Max. (psi): 150,000	Calculated Shear Load-THREADS (ref.)(lbf): 7,095	Tightening Torque <sup>1</sup> : 58 ft.lbf, 692 in.lbf, 78.2 Nm
FINISH DATA		
Finish: As received steel	K factor (ref. DIN 946): 0.2	

<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.

\*Product meets all requirements of the referenced standard, however the manufacturer does not certify to that standard and threaded rod is not marked for grade or manufacturer. Test reports are available if requested.

\*If specification certified product is required we can source that for you or offer to have the stock product re-tested and certified by a third party accredited laboratory.

