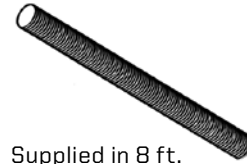


CHAMPION THREAD™ Fasteners and Hanging Systems are specially developed to give optimum strength and chemical corrosion resistance. The systems are excellent for all structural, mechanical and electrical applications where components must be corrosion resistant. All nuts are hex type and standard tools can be used for easy assembly.

FRP HEX NUT



Part No.	Size
CS-HN- 3/8	3/8" - 16 UNC
CS-HN- 1/2	1/2" - 13 UNC
CS-HN- 5/8	5/8" - 11 UNC
CS-HN- 3/4	3/4" - 10 UNC
CS-HN-1	1" - 8 UNC



Supplied in 8 ft. (2.4m) lengths.

FRP THREADED ROD

Part No.	Size
CS-TR- 3/8	3/8" - 16 UNC
CS-TR- 1/2	1/2" - 13 UNC
CS-TR- 5/8	5/8" - 11 UNC
CS-TR- 3/4	3/4" - 10 UNC
CS-TR-1	1" - 8 UNC

FRP CHANNEL NUT



Part No.	Size
CS-CN - 3/8 -V	3/8" - 16 UNC
CS-CN - 1/2 -V	1/2" - 13 UNC

FRP FLAT WASHER



Part No.	Size
CS-FW- 3/8	3/8" - 16 UNC
CS-FW- 1/2	1/2" - 13 UNC
CS-FW- 5/8	5/8" - 11 UNC
CS-FW- 3/4	3/4" - 10 UNC
CS-FW-1	1" - 8 UNC

FRP ROD COUPLER



Part No.	Size
CS-RC- 3/8	3/8" - 16 UNC
CS-RC- 1/2	1/2" - 13 UNC
CS-RC- 5/8	5/8" - 11 UNC
CS-RC- 3/4	3/4" - 10 UNC
CS-RC-1	1" - 8 UNC

TYPICAL PROPERTIES OF CHAMPION THREADED ROD

Properties	Thread Size				
	5/8-16 UNC	1/2-13 UNC	5/8-11 UNC	3/4-10 UNC	1-8 UNC
Thread shear strength using fiberglass nut in tensile (lbs.)	470	570	1,600	1,700	3,000
Transverse shear on threaded rod - double shear ASTM-B-565 (load lb.)	3,000	5,000	7,500	12,000	22,000
Transverse shear on threaded rod - single shear (load lb.)	1,600	2,600	3,800	6,200	15,000
Compressive strength - longitudinal ASTM-D-695 (psi)	54,000	54,000	54,000	54,000	65,000
Flexural strength ASTM-D-790 (psi)	55,000	55,000	55,000	55,000	60,000
Flexural modulus ASTM-D-790 (psi x 10 ⁶)	2.0	2.0	2.0	2.50	2.75
Torque strength using fiberglass nut lubricated with SAE 10W30 motor oil (ft./lbs.)	5	10	35	50	60
Dielectric strength ASTM-D-149 (kv/in.)	35	35	35	35	35
Water absorption 24 hour immersion - threaded ASTM-D-570 (%)	1	1	1	1	1
Coefficient of thermal expansion-longitudinal (in/in/°F)	5 x 10 ⁻⁶	5 x 10 ⁻⁶	5 x 10 ⁻⁶	5 x 10 ⁻⁶	5 x 10 ⁻⁶
Max recommended operation temp - based on 50% retention of ultimate thread shear strength (°F)	200	200	200	200	200
Stud weight lb/ft	0.07	0.12	0.18	0.28	0.50
Flammability	Self-Extinguishing on All				