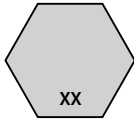


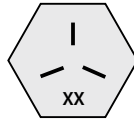
TENSILE STRENGTH

Ultimate Tensile Strength is the maximum stress a fastener can take before it breaks.



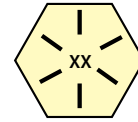
**SAE J429, GRADE 2
COARSE THREAD**

SIZE	PSI	POUNDS
1/4-20	74,000	2,350
5/16-18		3,900
3/8-16		5,750
7/16-14		7,850
1/2-13		10,500
9/16-12		13,500
5/8-11		16,700
3/4-10		24,700
7/8-9	60,000	27,700
1-8		36,400
1 1/8-7		45,800
1 1/4-7		58,100
1 3/8-6		69,300
1 1/2-6		84,300



**SAE J429, GRADE 5
COARSE THREAD**

SIZE	PSI	POUNDS
1/4-20	120,000	3,800
5/16-18		6,300
3/8-16		9,300
7/16-14		12,800
1/2-13		17,000
9/16-12		21,800
5/8-11		27,100
3/4-10		40,100
7/8-9	105,000	55,400
1-8		72,700
1 1/8-7		80,100
1 1/4-7		101,700
1 3/8-6		121,300
1 1/2-6		147,500



**SAE J429, GRADE 8
COARSE THREAD**

SIZE	PSI	POUNDS
1/4-20	150,000	4,750
5/16-18		7,850
3/8-16		11,600
7/16-14		15,900
1/2-13		21,300
9/16-12		27,300
5/8-11		33,900
3/4-10		50,100
7/8-9	150,000	69,300
1-8		90,900
1 1/8-7		114,400
1 1/4-7		145,400
1 3/8-6		173,200
1 1/2-6		210,800

**SAE J429, GRADE 2
FINE THREAD**

SIZE	PSI	POUNDS
1/4-28	74,000	2,700
5/16-24		4,300
3/8-24		6,500
7/16-20		8,800
1/2-20		11,800
9/16-18		15,000
5/8-18		18,900
3/4-10		27,600
7/8-14	60,000	30,500
1-12		39,800
1-14		40,700
1 1/8-12		51,400
1 1/4-12		64,400
1 3/8-12		78,900
1 1/2-12		94,900

**SAE J429, GRADE 5
FINE THREAD**

SIZE	PSI	POUNDS
1/4-28	120,000	4,350
5/16-24		6,950
3/8-24		10,500
7/16-20		14,200
1/2-20		19,200
9/16-18		24,400
5/8-18		30,700
3/4-10		44,800
7/8-14	105,000	61,100
1-12		79,600
1-14		81,500
1 1/8-12		89,900
1 1/4-12		112,700
1 3/8-12		138,100
1 1/2-12		166,000

**SAE J429, GRADE 8
FINE THREAD**

SIZE	PSI	POUNDS
1/4-28	150,000	5,450
5/16-24		8,700
3/8-24		13,200
7/16-20		17,800
1/2-20		24,000
9/16-18		30,400
5/8-18		38,400
3/4-10		56,000
7/8-14	150,000	76,400
1-12		99,400
1-14		101,900
1 1/8-12		128,400
1 1/4-12		161,000
1 3/8-12		197,200
1 1/2-12		237,200



2531 E. Jensen Ave, Fresno, CA 93706 | P: 559-485-8658, F: 559-485-8674, E: info@frontierfastener.com

www.frontierfastener.com

Frontier Fastener makes no warranties as to the accuracy, completeness and reliability of the information on this page. Use of the information is strictly at your own risk and Frontier Fastener will not be liable for any losses and/or damages.