



# Proof Load, Yield & Tensile Strength Chart Metric

Major Diameter	Thread Size	Tensile Area mm <sup>2</sup>	Class 8.8			Class 9.8			Class 10.9			Class 12.9		
			Proof	Yield	Tensile	Proof	Yield	Tensile	Proof	Yield	Tensile	Proof	Yield	Tensile
			(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)
M6	M6-1.0	20.125	12.1	13.3	16.7	13.0	14.4	18.2	16.7	18.9	21.0	19.6	22.2	24.6
M8	M8-1.25	36.611	22.0	24.2	30.3	23.7	26.3	33.1	30.3	34.3	38.1	35.6	40.4	44.7
	M8-1.0	39.169	23.5	25.9	32.4	25.4	28.1	35.4	32.4	36.7	40.8	38.1	43.2	47.8
M9	M9-1.0	51.048	30.6	33.8	42.2	33.1	36.6	46.1	42.2	47.9	53.1	49.6	56.3	62.3
M10	M10-1.5	57.994	34.8	38.4	48.0	37.6	41.6	52.4	48.0	54.4	60.4	56.4	64.0	70.8
	M10-1.25	61.202	36.7	40.5	50.6	39.7	43.9	55.3	50.6	57.4	63.7	59.5	67.5	74.7
M11	M11-2.0	65.382	39.2	43.3	54.1	42.4	46.9	59.1	54.1	61.3	68.1	63.6	72.1	79.8
	M11-1.5	72.277	43.4	47.8	59.8	46.8	51.8	65.3	59.8	67.8	75.2	70.3	79.7	88.2
M12	M12-1.75	84.272	50.6	55.8	69.7	54.6	60.4	76.1	69.7	79.0	87.7	81.9	93.0	102.8
	M12-1.5	88.131	52.9	58.3	72.9	57.1	63.2	79.6	72.9	82.6	91.8	85.7	97.2	107.6
	M12-1.25	92.076	55.2	60.9	76.2	59.7	66.0	83.2	76.2	86.3	95.9	89.5	101.6	112.4
M14	M14-2.0	115.447	69.3	76.4	95.5	74.8	82.8	104.3	95.5	108.3	120.2	112.2	127.4	140.9
	M14-1.5	124.552	74.7	82.4	103.1	80.7	89.3	112.5	103.1	116.8	129.7	121.1	137.4	152.0
M16	M16-2.0	156.677	94.0	103.7	129.6	101.5	112.3	141.5	129.6	146.9	163.1	152.3	172.8	191.2
	M16-1.5	167.255	100.3	110.7	138.4	108.4	119.9	151.1	138.4	156.8	174.1	162.6	184.5	204.1
M18	M18-1.5	216.242	129.7	143.1	178.9	140.1	155.1	195.3	178.9	202.8	225.1	210.2	238.6	263.9
M20	M20-2.5	244.808	146.8	162.0	202.5	158.7	175.5	221.1	202.5	229.6	254.9	238.0	270.1	298.8
	M20-1.5	271.513	162.9	179.7	224.6	176.0	194.7	245.2	224.6	254.6	282.7	264.0	299.5	331.3
M22	M22-2.5	303.415	182.0	200.8	251.0	196.6	217.6	274.0	251.0	284.5	315.9	295.0	334.7	370.3
	M22-1.5	333.066	199.8	220.5	275.6	215.9	238.8	300.8	275.6	312.3	346.8	323.8	367.4	406.5
M24	M24-3.0	352.524	211.5	233.3	291.7	228.5	252.8	318.4	291.7	330.6	367.0	342.7	388.9	430.2
	M24-2.0	384.431	230.6	254.5	318.1	249.2	275.7	347.2	318.1	360.5	400.2	373.7	424.1	469.1

**GFC Engineering & Testing Center**

1524 East 14 Mile Road • Madison Heights, MI 48071 • 248-307-0567 • [www.genfast.com](http://www.genfast.com)