

TENSILE STRESS AREA OF BOLT - IMPERIAL & METRIC THREADS

Imperial Threads

Nominal Thread Diameter	BSW		BSF		UNC		UNF	
	TPI	in2	TPI	in2	TPI	in2	TPI	in2
1/4	20	0.0320	26	0.0356	20	0.0324	28	0.0368
5/16	18	0.0527	22	0.0567	18	0.0532	24	0.0587
3/8	16	0.0779	20	0.0839	16	0.0786	24	0.0886
7/16	14	0.1069	18	0.1158	14	0.1078	20	0.1198
1/2	12	0.1385	16	0.1520	13	0.1438	20	0.1612
9/16	12	0.0183	16	0.1980	12	0.184	18	0.205
5/8	11	0.2270	14	0.2430	11	0.229	18	0.258
3/4	10	0.3360	12	0.3520	10	0.338	16	0.375
7/8	9	0.4630	11	0.4870	9	0.467	14	0.513
1	8	0.6080	10	0.6420	8	0.612	12	0.667

Metric Threads

Nominal Thread Diameter	Course Pitch		Fine Pitch	
	TPI	mm2	TPI	mm2
M3	0.5	5.03	0.35	-
M4	0.7	8.78	0.50	-
M5	0.8	14.2	0.50	-
M6	1.0	20.1	0.75	22.0
M8	1.25	36.6	1.00	39.2
M10	1.50	58.0	1.25	61.2
M12	1.75	84.3	1.25	92.1
M14	2.0	115	1.50	125.0
M16	2.0	157	1.50	167.0
M18	2.5	192	1.50	-