

**Table 8-2**

Diameters and Area of Unified Screw Threads UNC and UNF\*

Size Designation	Coarse Series—UNC				Fine Series—UNF		
	Nominal Major Diameter in	Threads per Inch <i>N</i>	Tensile-Stress Area <i>A<sub>t</sub></i> , in <sup>2</sup>	Minor-Diameter Area <i>A<sub>r</sub></i> , in <sup>2</sup>	Threads per Inch <i>N</i>	Tensile-Stress Area <i>A<sub>t</sub></i> , in <sup>2</sup>	Minor-Diameter Area <i>A<sub>r</sub></i> , in <sup>2</sup>
0	0.0600				80	0.001 80	0.001 51
1	0.0730	64	0.002 63	0.002 18	72	0.002 78	0.002 37
2	0.0860	56	0.003 70	0.003 10	64	0.003 94	0.003 39
3	0.0990	48	0.004 87	0.004 06	56	0.005 23	0.004 51
4	0.1120	40	0.006 04	0.004 96	48	0.006 61	0.005 66
5	0.1250	40	0.007 96	0.006 72	44	0.008 80	0.007 16
6	0.1380	32	0.009 09	0.007 45	40	0.010 15	0.008 74
8	0.1640	32	0.014 0	0.011 96	36	0.014 74	0.012 85
10	0.1900	24	0.017 5	0.014 50	32	0.020 0	0.017 5
12	0.2160	24	0.024 2	0.020 6	28	0.025 8	0.022 6
$\frac{1}{4}$	0.2500	20	0.031 8	0.026 9	28	0.036 4	0.032 6
$\frac{5}{16}$	0.3125	18	0.052 4	0.045 4	24	0.058 0	0.052 4
$\frac{3}{8}$	0.3750	16	0.077 5	0.067 8	24	0.087 8	0.080 9
$\frac{7}{16}$	0.4375	14	0.106 3	0.093 3	20	0.118 7	0.109 0
$\frac{1}{2}$	0.5000	13	0.141 9	0.125 7	20	0.159 9	0.148 6
$\frac{9}{16}$	0.5625	12	0.182	0.162	18	0.203	0.189
$\frac{5}{8}$	0.6250	11	0.226	0.202	18	0.256	0.240
$\frac{3}{4}$	0.7500	10	0.334	0.302	16	0.373	0.351
$\frac{7}{8}$	0.8750	9	0.462	0.419	14	0.509	0.480
1	1.0000	8	0.606	0.551	12	0.663	0.625
1 $\frac{1}{4}$	1.2500	7	0.969	0.890	12	1.073	1.024
1 $\frac{1}{2}$	1.5000	6	1.405	1.294	12	1.581	1.521

\* This table was compiled from ANSI B1.1-1974. The minor diameter was found from the equation  $d_r = d - 1.299\ 038p$ , and the pitch diameter from  $d_m = d - 0.649\ 519p$ . The mean of the pitch diameter and the minor diameter was used to compute the tensile-stress area.