

Unified National Thread Properties Data Chart

Thread Size/ and Class:	Standard 75% Cut Thread Tap Drill:	Thread Clr Dia:	Effective Tensile Area:	Equivalent Pin Dia:	Screw Shear Area/L:	Nut Shear Area/L:	Thread Shear Area:	Standard 75% Form Thread Tap Drill:
.0600-80UNF-2	.0465 (#56)	.0422	.0018	0.0478	0.0673	0.1056	.0015	.0520 (#55)
.0600-80UNF-3	.0465 (#56)	.0427	.0018	0.0478	0.0748	0.1156	.0015	.0520 (#55)
.0730-64UNC-2	.0595 (#53)	.0512	.0026	0.0578	0.0834	0.1324	.0021	.0635 (#52)
.0730-64UNC-3	.0595 (#53)	.0518	.0026	0.0578	0.0914	0.1440	.0022	.0635 (#52)
.0730-72UNF-2	.0595 (#53)	.0534	.0028	0.0595	0.0832	0.1298	.0023	.0670 (#51)
.0730-72UNF-3	.0595 (#53)	.0540	.0028	0.0595	0.0923	0.1418	.0024	.0670 (#51)
.0860-56UNC-2	.0700 (#50)	.0615	.0037	0.0686	0.1008	0.1616	.0030	.0760 (#48)
.0860-56UNC-3	.0700 (#50)	.0621	.0037	0.0686	0.1090	0.1736	.0031	.0760 (#48)
.0860-64UNF-2	.0700 (#50)	.0642	.0039	0.0708	0.1008	0.1566	.0033	.0781 (5/64)
.0860-64UNF-3	.0700 (#50)	.0648	.0039	0.0708	0.1104	0.1702	.0034	.0781 (5/64)
.0990-48UNC-2	.0785 (#47)	.0707	.0049	0.0787	0.1180	0.1906	.0040	.0860 (#44)
.0990-48UNC-3	.0785 (#47)	.0714	.0049	0.0787	0.1276	0.2044	.0041	.0860 (#44)
.0990-56UNF-2	.0820 (#45)	.0744	.0052	0.0816	0.1183	0.1862	.0044	.0890 (#43)
.0990-56UNF-3	.0820 (#45)	.0751	.0052	0.0816	0.1297	0.2011	.0045	.0890 (#43)
.1120-40UNC-2	.0890 (#43)	.0785	.0060	0.0876	0.1380	0.2205	.0049	.0995 (#39)
.1120-40UNC-3	.0890 (#43)	.0793	.0060	0.0876	0.1475	0.2354	.0050	.0995 (#39)
.1120-48UNF-2	.0935 (#42)	.0837	.0066	0.0917	0.1403	0.2161	.0055	.1015 (#38)
.1120-48UNF-3	.0935 (#42)	.0844	.0066	0.0917	0.1512	0.2316	.0056	.1015 (#38)
.1250-40UNC-2	.1015 (#38)	.0915	.0080	0.1006	0.1607	0.2476	.0066	.1130 (#33)
.1250-40UNC-3	.1015 (#38)	.0923	.0080	0.1006	0.1722	0.2631	.0067	.1130 (#33)
.1250-44UNF-2	.1040 (#37)	.0944	.0083	0.1029	0.1617	0.2459	.0070	.1130 (#33)
.1250-44UNF-3	.1040 (#37)	.0951	.0083	0.1029	0.1729	0.2617	.0071	.1130 (#33)
.1380-32UNC-2	.1065 (#36)	.0969	.0091	0.1076	0.1797	0.2807	.0074	.1200 (#31)
.1380-32UNC-3	.1065 (#36)	.0977	.0091	0.1076	0.1897	0.2962	.0075	.1200 (#31)
.1380-40UNF-2	.1130 (#33)	.1045	.0101	0.1136	0.1817	0.2736	.0086	.1250 (1/8)
.1380-40UNF-3	.1130 (#33)	.1053	.0101	0.1136	0.1966	0.2917	.0087	.1250 (1/8)
.1640-32UNC-2	.1360 (#29)	.1228	.0140	0.1336	0.2256	0.3343	.0117	.1470 (#26)
.1640-32UNC-3	.1360 (#29)	.1237	.0140	0.1336	0.2391	0.3536	.0119	.1470 (#26)
.1640-36UNF-2	.1360 (#29)	.1271	.0147	0.1369	0.2268	0.3311	.0126	.1495 (#25)
.1640-36UNF-3	.1360 (#29)	.1279	.0147	0.1369	0.2437	0.3504	.0127	.1495 (#25)

Thread Size/ and Class:	Standard 75% Cut Thread Tap Drill:	Thread Clr Dia:	Effective Tensile Area:	Equivalent Pin Dia:	Screw Shear Area/L:	Nut Shear Area/L:	Thread Shear Area:	Standard 75% Form Thread Tap Drill:
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.1900-24UNC-2	.1495 (#25)	.1359	.0175	0.1494	0.2627	0.4011	.0143	.1695 (#18)
.1900-24UNC-3	.1495 (#25)	.1369	.0175	0.1494	0.2774	0.4200	.0145	.1695 (#18)
.1900-32UNF-2	.1590 (#21)	.1488	.0200	0.1596	0.2747	0.3886	.0171	.1730 (#17)
.1900-32UNF-3	.1590 (#21)	.1497	.0200	0.1596	0.2892	0.4108	.0174	.1730 (#17)
.2160-24UNC-2	.1770 (#16)	.1619	.0242	0.1754	0.3119	0.4576	.0203	.1935 (#10)
.2160-24UNC-3	.1770 (#16)	.1629	.0242	0.1754	0.3279	0.4789	.0205	.1935 (#10)
.2160-28UNF-2	.1820 (#14)	.1692	.0258	0.1812	0.3167	0.4493	.0221	.1960 (#9)
.2160-28UNF-3	.1820 (#14)	.1702	.0258	0.1812	0.3360	0.4738	.0224	.1960 (#9)
.2160-32UNEF-2	.1875 (3/16)	.1748	.0270	0.1856	0.3172	0.4413	.0236	.1990 (#8)
.2160-32UNEF-3	.1875 (3/16)	.1757	.0270	0.1856	0.3395	0.4664	.0238	.1990 (#8)
.2500-20UNC-1	.2040 (#6)	.1856	.0318	0.2013	0.3537	0.4740	.0265	.2210 (#2)
.2500-20UNC-2	.2040 (#6)	.1856	.0318	0.2013	0.3680	0.5398	.0265	.2210 (#2)
.2500-20UNC-3	.2040 (#6)	.1867	.0318	0.2013	0.3847	0.5625	.0268	.2210 (#2)
.2500-28UNF-1	.2188 (7/32)	.2032	.0364	0.2152	0.3545	0.4474	.0317	.2280 (#1)
.2500-28UNF-2	.2188 (7/32)	.2032	.0364	0.2152	0.3735	0.5213	.0317	.2280 (#1)
.2500-28UNF-3	.2188 (7/32)	.2042	.0364	0.2152	0.4030	0.5494	.0321	.2280 (#1)
.2500-32UNEF-2	.2210 (#2)	.2087	.0379	0.2196	0.3714	0.5101	.0335	.2340 (A)
.2500-32UNEF-3	.2210 (#2)	.2097	.0379	0.2196	0.4071	0.5419	.0338	.2340 (A)
.3125-18UNC-1	.2610 (G)	.2411	.0524	0.2584	0.4517	0.6037	.0446	.2812 (9/32)
.3125-18UNC-2	.2610 (G)	.2411	.0524	0.2584	0.4699	0.6818	.0446	.2812 (9/32)
.3125-18UNC-3	.2610 (G)	.2423	.0524	0.2584	0.5024	0.7103	.0450	.2812 (9/32)
.3125-24UNF-1	.2720 (I)	.2583	.0581	0.2719	0.4568	0.5782	.0511	.2900 (L)
.3125-24UNF-2	.2720 (I)	.2583	.0581	0.2719	0.4785	0.6632	.0511	.2900 (L)
.3125-24UNF-3	.2720 (I)	.2594	.0581	0.2719	0.5201	0.6962	.0515	.2900 (L)
.3125-32UNEF-2	.2821 (9/32)	.2712	.0625	0.2821	0.4824	0.6412	.0563	.2969 (19/64)
.3125-32UNEF-3	.2821 (9/32)	.2722	.0625	0.2821	0.5315	0.6807	.0567	.2969 (19/64)
.3750-16UNC-1	.3125 (5/16)	.2950	.0775	0.3141	0.5564	0.7379	.0665	.3438 (11/32)
.3750-16UNC-2	.3125 (5/16)	.2950	.0775	0.3141	0.5760	0.8281	.0665	.3438 (11/32)
.3750-16UNC-3	.3125 (5/16)	.2963	.0775	0.3141	0.6190	0.8597	.0671	.3438 (11/32)
.3750-24UNF-1	.3320 (Q)	.3208	.0878	0.3344	0.5504	0.6936	.0786	.3480 (S)
.3750-24UNF-2	.3320 (Q)	.3208	.0878	0.3344	0.5785	0.7979	.0786	.3480 (S)
.3750-24UNF-3	.3320 (Q)	.3219	.0878	0.3344	0.6442	0.8371	.0791	.3480 (S)
.3750-32UNEF-2	.3438 (11/32)	.3337	.0932	0.3446	0.5745	0.7682	.0850	.3594 (23/64)
.3750-32UNEF-3	.3438 (11/32)	.3347	.0932	0.3446	0.6516	0.8152	.0855	.3594 (23/64)
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.4375-14UNC-1	.3680 (U)	.3465	.1063	0.3679	0.6536	0.8775	.0916	.3970 (X)
.4375-14UNC-2	.3680 (U)	.3465	.1063	0.3679	0.6765	0.9781	.0916	.3970 (X)
.4375-14UNC-3	.3680 (U)	.3479	.1063	0.3679	0.7339	1.0128	.0923	.3970 (X)
.4375-20UNF-1	.3906 (25/64)	.3729	.1187	0.3888	0.6563	0.8337	.1060	.4062 (13/32)
.4375-20UNF-2	.3906 (25/64)	.3729	.1187	0.3888	0.6849	0.9473	.1060	.4062 (13/32)
.4375-20UNF-3	.3906 (25/64)	.3742	.1187	0.3888	0.7614	0.9907	.1067	.4062 (13/32)
.4375-28UNEF-2	.4040 (Y)	.3906	.1274	0.4027	0.6931	0.9154	.1162	.4130 (Z)
.4375-28UNEF-3	.4040 (Y)	.3917	.1274	0.4027	0.7701	0.9659	.1169	.4130 (Z)
.5000-13UNC-1	.4219 (27/64)	.4021	.1419	0.4251	0.7544	1.0133	.1231	.4531 (29/64)
.5000-13UNC-2	.4219 (27/64)	.4021	.1419	0.4251	0.7789	1.1235	.1231	.4531 (29/64)
.5000-13UNC-3	.4219 (27/64)	.4036	.1419	0.4251	0.8537	1.1638	.1240	.4531 (29/64)
.5000-20UNF-1	.4531 (29/64)	.4354	.1600	0.4513	0.7643	0.9513	.1443	.4688 (15/32)
.5000-20UNF-2	.4531 (29/64)	.4354	.1600	0.4513	0.7991	1.0821	.1443	.4688 (15/32)
.5000-20UNF-3	.4531 (29/64)	.4367	.1600	0.4513	0.8871	1.1331	.1451	.4688 (15/32)
.5000-28UNEF-2	.4688 (15/32)	.4531	.1700	0.4652	0.7860	1.0435	.1562	.4844 (31/64)
.5000-28UNEF-3	.4688 (15/32)	.4542	.1700	0.4652	0.8865	1.1035	.1569	.4844 (31/64)
.5625-12UNC-1	.4844 (31/64)	.4567	.1819	0.4813	0.8753	1.1511	.1586	.5156 (33/64)
.5625-12UNC-2	.4844 (31/64)	.4567	.1819	0.4813	0.8934	1.2734	.1586	.5156 (33/64)
.5625-12UNC-3	.4844 (31/64)	.4583	.1819	0.4813	0.9737	1.3167	.1598	.5156 (33/64)
.5625-18UNF-1	.5156 (33/64)	.4909	.2030	0.5084	0.8628	1.0880	.1832	.5312 (17/32)
.5625-18UNF-2	.5156 (33/64)	.4909	.2030	0.5084	0.9014	1.2302	.1832	.5312 (17/32)
.5625-18UNF-3	.5156 (33/64)	.4923	.2030	0.5084	1.0088	1.2858	.1842	.5312 (17/32)
.5625-24UNEF-2	.5312 (17/32)	.5082	.2139	0.5219	0.9035	1.1984	.1963	.5469 (35/64)
.5625-24UNEF-3	.5312 (17/32)	.5094	.2139	0.5219	1.0086	1.2614	.1972	.5469 (35/64)
.6250-11UNC-1	.5469 (35/64)	.5099	.2260	0.5364	0.9677	1.2948	.1976	.5781 (37/64)
.6250-11UNC-2	.5469 (35/64)	.5099	.2260	0.5364	0.9982	1.4249	.1976	.5781 (37/64)
.6250-11UNC-3	.5469 (35/64)	.5115	.2260	0.5364	1.0921	1.4702	.1988	.5781 (37/64)
.6250-18UNF-1	.5781 (37/64)	.5534	.2560	0.5709	0.9551	1.2081	.2326	.5938 (19/32)
.6250-18UNF-2	.5781 (37/64)	.5534	.2560	0.5709	0.9985	1.3674	.2326	.5938 (19/32)
.6250-18UNF-3	.5781 (37/64)	.5548	.2560	0.5709	1.1320	1.4289	.2338	.5938 (19/32)
.6250-24UNEF-2	.5938 (19/32)	.5707	.2682	0.5844	0.9961	1.3309	.2473	.6094 (39/64)
.6250-24UNEF-3	.5938 (19/32)	.5719	.2682	0.5844	1.1263	1.4007	.2483	.6094 (39/64)

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.7500-10UNC-1	.6562 (21/32)	.6235	.3345	0.6526	1.1785	1.5718	.2950	.7031 (45/64)
.7500-10UNC-2	.6562 (21/32)	.6235	.3345	0.6526	1.2134	1.7232	.2950	.7031 (45/64)
.7500-10UNC-3	.6562 (21/32)	.6253	.3345	0.6526	1.3379	1.7782	.2967	.7031 (45/64)
.7500-16UNF-1	.6875 (11/16)	.6698	.3730	0.6891	1.1821	1.4752	.3403	.7188 (23/32)
.7500-16UNF-2	.6875 (11/16)	.6698	.3730	0.6891	1.2326	1.6586	.3403	.7188 (23/32)
.7500-16UNF-3	.6875 (11/16)	.6713	.3730	0.6891	1.3818	1.7286	.3418	.7188 (23/32)
.7500-20UNEF-2	.7031 (45/64)	.6854	.3863	0.7013	1.2337	1.6308	.3563	.7188 (23/32)
.7500-20UNEF-3	.7031 (45/64)	.6867	.3863	0.7013	1.3734	1.7063	.3576	.7188 (23/32)
.8750-9UNC-1	.7656 (49/64)	.7348	.4617	0.7667	1.3923	1.8564	.4093	.8125 (13/16)
.8750-9UNC-2	.7656 (49/64)	.7348	.4617	0.7667	1.4329	2.0257	.4093	.8125 (13/16)
.8750-9UNC-3	.7656 (49/64)	.7367	.4617	0.7667	1.5827	2.0864	.4114	.8125 (13/16)
.8750-14UNF-1	.8125 (13/16)	.7838	.5095	0.8054	1.3799	1.7550	.4656	.8281 (53/64)
.8750-14UNF-2	.8125 (13/16)	.7838	.5095	0.8054	1.4357	1.9585	.4656	.8281 (53/64)
.8750-14UNF-3	.8125 (13/16)	.7854	.5095	0.8054	1.6299	2.0346	.4675	.8281 (53/64)
.8750-20UNEF-2	.8281 (53/64)	.8104	.5362	0.8263	1.4518	1.9060	.4976	.8438 (27/32)
.8750-20UNEF-3	.8281 (53/64)	.8117	.5362	0.8263	1.6174	1.9938	.4992	.8438 (27/32)
1.0000-8UNC-1	.875 (7/8)	.8426	.6057	0.8782	1.6137	2.1480	.5379	.9375 (15/16)
1.0000-8UNC-2	.875 (7/8)	.8426	.6057	0.8782	1.6563	2.3343	.5379	.9375 (15/16)
1.0000-8UNC-3	.875 (7/8)	.8446	.6057	0.8782	1.8158	2.3991	.5404	.9375 (15/16)
1.0000-12UNF-1	.922 (59/64)	.8940	.6630	0.9188	1.6051	2.0470	.6053	.9531 (61/64)
1.0000-12UNF-2	.922 (59/64)	.8940	.6630	0.9188	1.6637	2.2653	.6053	.9531 (61/64)
1.0000-12UNF-3	.922 (59/64)	.8958	.6630	0.9188	1.8793	2.3490	.6077	.9531 (61/64)
1.0000-20UNEF-2	.953 (61/64)	.9353	.7107	0.9513	1.6629	2.1703	.6624	.9688 (32/31)
1.0000-20UNEF-3	.953 (61/64)	.9367	.7107	0.9513	1.8579	2.2777	.6644	.9688 (32/31)
1.1250-7UNC-1	.984 (63/64)	.9455	.7633	0.9858	1.8350	2.3682	.6769	1.0469 (1-3/64)
1.1250-7UNC-2	.984 (63/64)	.9455	.7633	0.9858	1.8819	2.6482	.6769	1.0469 (1-3/64)
1.1250-7UNC-3	.984 (63/64)	.9477	.7633	0.9858	2.0439	2.7168	.6800	1.0469 (1-3/64)
1.1250-12UNF-1	1.047 (1-3/64)	1.0190	.8557	1.0438	1.8168	2.3006	.7860	1.0781 (1-5/64)
1.1250-12UNF-2	1.047 (1-3/64)	1.0190	.8557	1.0438	1.8855	2.7125	.7860	1.0781 (1-5/64)
1.1250-12UNF-3	1.047 (1-3/64)	1.0208	.8557	1.0438	2.1324	2.6412	.7888	1.0781 (1-5/64)
1.1250-18UNEF-2	1.078 (1-5/64)	1.0534	.9007	1.0709	1.8623	2.4720	.8398	1.0938 (1-3/32)
1.1250-18UNEF-3	1.078 (1-5/64)	1.0548	.9007	1.0709	2.1164	2.5844	.8421	1.0938 (1-3/32)
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1.2500-7UNC-1	1.109 (1-7/64)	1.0705	.9691	1.1108	2.0620	2.7228	.8673	1.1719 (1-11/64)
1.2500-7UNC-2	1.109 (1-7/64)	1.0705	.9691	1.1108	2.1148	2.9443	.8673	1.1719 (1-11/64)
1.2500-7UNC-3	1.109 (1-7/64)	1.0727	.9691	1.1108	2.3012	3.0216	.8708	1.1719 (1-11/64)
1.2500-12UNF-1	1.172 (1-11/64)	1.1440	1.0729	1.1688	2.0273	2.5526	.9902	1.2031 (1-13/64)
1.2500-12UNF-2	1.172 (1-11/64)	1.1440	1.0729	1.1688	2.1042	2.8284	.9902	1.2031 (1-13/64)
1.2500-12UNF-3	1.172 (1-11/64)	1.1458	1.0729	1.1688	2.3849	2.9350	.9933	1.2031 (1-13/64)
1.2500-18UNEF-2	1.203 (1-13/64)	1.1783	1.1232	1.1959	2.0664	2.7408	1.0504	1.2188 (1-7/32)
1.2500-18UNEF-3	1.203 (1-13/64)	1.1798	1.1232	1.1959	2.3629	2.8698	1.0531	1.2188 (1-7/32)
1.3750-6UNC-1	1.219 (1-7/32)	1.1661	1.1549	1.2126	2.2882	3.0370	1.0288	1.2812 (1-9/32)
1.3750-6UNC-2	1.219 (1-7/32)	1.1661	1.1549	1.2126	2.3415	3.2669	1.0288	1.2812 (1-9/32)
1.3750-6UNC-3	1.219 (1-7/32)	1.1685	1.1549	1.2126	2.5172	3.3465	1.0330	1.2812 (1-9/32)
1.3750-12UNF-1	1.297 (1-19/64)	1.2689	1.3147	1.2938	2.2339	2.7998	1.2178	1.3281 (1-21/64)
1.3750-12UNF-2	1.297 (1-19/64)	1.2689	1.3147	1.2938	2.3218	3.1052	1.2178	1.3281 (1-21/64)
1.3750-12UNF-3	1.297 (1-19/64)	1.2708	1.3147	1.2938	2.6370	3.2282	1.2215	1.3281 (1-21/64)
1.3750-18UNEF-2	1.328 (1-21/64)	1.3033	1.3703	1.3209	2.2811	3.0172	1.2846	1.3438 (1-11/32)
1.3750-18UNEF-3	1.328 (1-21/64)	1.3048	1.3703	1.3209	2.6094	3.1588	1.2876	1.3438 (1-11/32)
1.5000-6UNC-1	1.344 (1-11/32)	1.2911	1.4052	1.3376	2.5202	3.3144	1.2607	1.4219 (1-27/64)
1.5000-6UNC-2	1.344 (1-11/32)	1.2911	1.4052	1.3376	2.5790	3.5668	1.2607	1.4219 (1-27/64)
1.5000-6UNC-3	1.344 (1-11/32)	1.2935	1.4052	1.3376	2.7749	3.6532	1.2654	1.4219 (1-27/64)
1.5000-12UNF-1	1.422 (1-27/64)	1.3939	1.5810	1.4188	2.4420	3.0514	1.4692	1.4531 (1-29/64)
1.5000-12UNF-2	1.422 (1-27/64)	1.3939	1.5810	1.4188	2.5415	3.3870	1.4692	1.4531 (1-29/64)
1.5000-12UNF-3	1.422 (1-27/64)	1.3958	1.5810	1.4188	2.8884	3.5177	1.4732	1.4531 (1-29/64)
1.5000-18UNEF-2	1.453 (1-29/64)	1.4283	1.6419	1.4459	2.5368	3.2838	1.5425	1.4688 (1-15/32)
1.5000-18UNEF-3	1.453 (1-29/64)	1.4298	1.6419	1.4459	2.8513	3.4429	1.5457	1.4688 (1-15/32)

Thread Size/ and Class:	Standard 75% Cut Thread Tap Drill:	Thread Clr Dia:	Effective Tensile Area:	Equivalent Pin Dia:	Screw Shear Area/L:	Nut Shear Area/L:	Thread Shear Area:	Standard 75% Form Thread Tap Drill:
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Thread Size/Class: ----- The thread designation and class of fit.
 Standard 75% Cut Thread Tap Drill: ----- The handbook cut thread tapdrill size.
 Thread Clr Dia: ----- The diameter for a thread clearance on an external thread.
 Effective Tensile Area: ----- The area divided into the load to calculate tensile stress in a screw.
 Equivalent Pin Dia: ----- The equivalent pin diameter used to calculate screw threads in bending.
 Screw Shear Area/L: ----- When multiplied by the length of engagement, this value provides a screw's shear area.
 Nut Shear Area/L: ----- When multiplied by the length of engagement, this value provides a nut's shear area.
 Thread Shear Area: ----- This is the area in direct shear when such force is applied to a screw's threads.
 Standard 75% Form Thread Tap Drill: ----- The handbook form thread tapdrill size.