

American Thread Specification Sheet																
Inch		External Thread							Internal Thread							
			Major Dia.		Pitch Dia.		Minor Dia.			Minor Dia.		Pitch Dia.		Major Dia.		Tap Drill
	Thread	Class							Class	Min.	Max.	Min.	Max.	Min.	Max.	
Size	Designation	Class	Max.	Min.	Max.	Min.	Max.	Min.	Class	Min.	Max.	Min.	Max.	Min.	Max.	Basic
0.0118	30-318 UNM	2A	0.0118	0.0112	0.0098	0.0092	0.0080		2B	0.0085	0.0100	0.0098	0.0103	0.0120		0.0083
0.0138	35-282 UNM	2A	0.0138	0.0131	0.0115	0.0109	0.0095		2B	0.0101	0.0117	0.0115	0.0121	0.0140		0.0096
0.0157	40-254 UNM	2A	0.0157	0.0150	0.0132	0.0126	0.0110		2B	0.0117	0.0134	0.0132	0.0138	0.0160		0.0110
0.0177	45-254 UNM	2A	0.0177	0.0170	0.0152	0.0145	0.0130		2B	0.0136	0.0154	0.0152	0.0158	0.0180		0.0124
0.0197	50-203 UNM	2A	0.0197	0.0189	0.0165	0.0158	0.0138		2B	0.0146	0.0166	0.0165	0.0172	0.0200		0.0138
0.021	0000-160 NS	2A	0.021	0.0195	0.0169	0.0158	0.0128		2B	0.0169	0.0181	0.0169	0.0181	0.021		
0.0217	55-203 UNM	2A	0.0217	0.0208	0.0185	0.0178	0.0157		2B	0.0165	0.0186	0.0185	0.0192	0.0220		0.0150
0.0236	60-169 UNM	2A	0.0236	0.0227	0.0198	0.0190	0.0165		2B	0.0175	0.0198	0.0198	0.0206	0.0241		0.0165
0.0276	70-145 UNM	2A	0.0276	0.0265	0.0231	0.0222	0.0193		2B	0.0204	0.0231	0.0231	0.0239	0.0281		0.0197
0.0315	80-127 UNM	2A	0.0315	0.0303	0.0264	0.0254	0.0220		2B	0.0233	0.0263	0.0264	0.0273	0.0320		0.0220
0.034	000-120 NS	2A	0.034	0.0325	0.0286	0.0272	0.0232		2B	0.0286	0.03	0.0286	0.03	0.034		
0.0354	90-113 UNM	2A	0.0341	0.0297	0.0287	0.0248	0.0231		2B	0.0262	0.0295	0.0297	0.0307	0.0361		0.0248
0.0394	100-102 UNM	2A	0.0380	0.0330	0.0319	0.0276	0.0257		2B	0.0291	0.0328	0.0330	0.0341	0.0401		0.0276
0.0433	110-102 UNM	2A	0.0419	0.0369	0.0358	0.0315	0.0296		2B	0.0331	0.0367	0.0369	0.0380	0.0440		0.0315
0.047	00-90 NS	2A	0.047	0.045	0.0398	0.0382	0.0326		2B	0.0398	0.0414	0.0398	0.0414	0.047		
	00-96 NS	2A	0.047	0.045	0.0402	0.0386	0.0334		2B	0.0402	0.0418	0.0402	0.0418	0.047		
0.0472	120-102 UNM	2A	0.0458	0.0409	0.0398	0.0354	0.0335		2B	0.0370	0.0406	0.0409	0.0420	0.0480		0.0354
0.0551	140-85 UNM	2A	0.0535	0.0474	0.0462	0.0409	0.0387		2B	0.0428	0.0471	0.0474	0.0487	0.0560		0.0386
0.06	0-80 UNF	2A	0.0595	0.0563	0.0514	0.0496	0.0446		2B	0.0465	0.0514	0.0519	0.0542	0.06		0.05
		3A	0.06	0.0568	0.0519	0.0506	0.0451		3B	0.0465	0.0514	0.0519	0.0536	0.06		0.05
	0-72 UNF	2A	0.0595	0.056	0.505	0.0486	0.043		2B	0.045	0.505	0.051	0.0535	0.06		0.05
		3A	0.06	0.0565	0.051	0.0496	0.0414		3B	0.045	0.505	0.051	0.0529	0.06		0.05
0.073	1-64 UNC	2A	0.0724	0.0686	0.0623	0.0603	0.0538		2B	0.0561	0.0623	0.0629	0.0655	0.073		0.06
		3A	0.073	0.0692	0.0629	0.0614	0.0544		3B	0.0561	0.0623	0.0629	0.0648	0.073		0.06
	1-72 UNF	2A	0.0724	0.0689	0.0634	0.0615	0.0559		2B	0.058	0.0635	0.064	0.0665	0.073		0.062
		3A	0.073	0.0695	0.064	0.0626	0.0565		3B	0.058	0.0635	0.064	0.0659	0.073		0.062
0.086	2-56 UNC	2A	0.0854	0.0813	0.0738	0.0717	0.0642		2B	0.0667	0.0737	0.0744	0.0772	0.086		0.072
		3A	0.086	0.0819	0.0744	0.0728	0.0648		3B	0.0667	0.0737	0.0744	0.0765	0.086		0.072
	2-64 UNF	2A	0.0854	0.0816	0.0753	0.0733	0.0668		2B	0.0691	0.0753	0.0759	0.0786	0.086		0.073
		3A	0.086	0.0822	0.0759	0.0744	0.0674		3B	0.0691	0.0753	0.0759	0.0779	0.086		0.073
0.099	3-48 UNC	2A	0.0983	0.0938	0.0848	0.0825	0.0734		2B	0.0764	0.0845	0.0855	0.0885	0.099		0.082
		3A	0.099	0.0945	0.0855	0.0838	0.0741		3B	0.0764	0.0845	0.0855	0.0877	0.099		0.082
	3-56 UNF	2A	0.0983	0.0942	0.0867	0.0845	0.0771		2B	0.0797	0.0865	0.0874	0.0902	0.099		0.084
		3A	0.099	0.0949	0.0874	0.0858	0.0778		3B	0.0797	0.0865	0.0874	0.0895	0.099		0.084

0.112	4-40 UNC	2A	0.1112	0.1061	0.095	0.0925	0.0814		2B	0.0849	0.0939	0.0958	0.0991	0.112		0.092
		3A	0.112	0.1069	0.0958	0.0939	0.0822		3B	0.0849	0.0939	0.0958	0.0982	0.112		0.092
	4-48 UNF	2A	0.1113	0.1068	0.0978	0.0954	0.0864		2B	0.0894	0.0968	0.0985	0.1016	0.112		0.096
		3A	0.112	0.1075	0.0985	0.0967	0.0871		3B	0.0894	0.0968	0.0985	0.1008	0.112		0.096
0.125	5-40 UNC	2A	0.1242	0.1191	0.108	0.1054	0.0944		2B	0.0979	0.1062	0.1088	0.1121	0.125		0.105
		3A	0.125	0.1199	0.1088	0.1069	0.0952		3B	0.0979	0.1062	0.1088	0.1113	0.125		0.105
	5-44 UNF	2A	0.1243	0.1195	0.1095	0.107	0.0972		2B	0.1004	0.1079	0.1102	0.1134	0.125		0.108
		3A	0.125	0.1202	0.1102	0.1083	0.0979		3B	0.1004	0.1079	0.1102	0.1126	0.125		0.108
0.138	6-32 UNC	2A	0.1372	0.1312	0.1169	0.1141	0.1		2B	0.104	0.114	0.1177	0.1214	0.138		0.115
		3A	0.138	0.132	0.1177	0.1156	0.1008		3B	0.104	0.114	0.1177	0.1204	0.138		0.115
	6-40 UNF	2A	0.1372	0.1321	0.121	0.1184	0.1074		2B	0.111	0.119	0.1218	0.1252	0.138		0.119
		3A	0.138	0.1329	0.1218	0.1198	0.1082		3B	0.111	0.1186	0.1218	0.1243	0.138		0.119
0.164	8-32 UNC	2A	0.1631	0.1571	0.1428	0.1399	0.1259		2B	0.13	0.139	0.1437	0.1475	0.164		0.139
		3A	0.164	0.158	0.1437	0.1415	0.1268		3B	0.13	0.1389	0.1437	0.1465	0.164		0.139
	8-36 UNF	2A	0.1632	0.1577	0.1452	0.1424	0.1301		2B	0.134	0.142	0.146	0.1496	0.164		0.142
		3A	0.164	0.1585	0.146	0.1439	0.1309		3B	0.134	0.1416	0.146	0.1487	0.164		0.142
0.19	10-24 UNC	2A	0.189	0.1818	0.1619	0.1586	0.1394		2B	0.145	0.156	0.1629	0.1672	0.19		0.155
		3A	0.19	0.1828	0.1629	0.1604	0.1404		3B	0.145	0.1555	0.1629	0.1661	0.19		0.155
	10-28 UNS	2A	0.189	0.1825	0.1658	0.1625	0.1464		2B	0.151	0.16	0.1668	0.1711	0.19		0.155
	10-32 UNF	2A	0.1891	0.1831	1.1688	0.1658	0.1519		2B	0.156	0.164	0.1697	0.1736	0.19		0.164
		3A	0.19	0.184	0.1697	0.1674	0.1528		3B	0.156	0.1641	0.1697	0.1726	0.19		0.164
	10-36 UNS	2A	0.1891	0.1836	0.1711	0.1681	0.156		2B	0.16	0.166	0.172	0.1759	0.19		0.164
	10-40 UNS	2A	0.1891	0.184	0.1729	0.17	0.1592		2B	0.163	0.169	0.1738	0.1775	0.19		0.164
	10-48 UNS	2A	0.1892	0.1847	0.1757	0.1731	0.1644		2B	0.167	0.172	0.1765	0.1799	0.19		0.164
	10-56 UNS	2A	0.1893	0.1852	0.1777	0.1752	0.1681		2B	0.171	0.175	0.1784	0.1816	0.19		0.164
0.216	12-24 UNC	2A	0.215	0.2078	0.1879	0.1845	0.1654		2B	0.171	0.181	0.1889	0.1933	0.216		0.181
		3A	0.216	0.2088	0.1889	0.1863	0.1664		3B	0.171	0.1807	0.1889	0.1922	0.216		0.181
	12-28 UNF	2A	0.215	0.2085	0.1918	0.1886	0.1724		2B	0.177	0.186	0.1928	0.197	0.216		0.186
		3A	0.216	0.2095	0.1928	0.1904	0.1734		3B	0.177	0.1857	0.1928	0.1959	0.216		0.186
	12-32 UNEF	2A	0.2151	0.2091	0.1948	0.1917	0.1779		2B	0.182	0.19	0.1957	0.1998	0.216		0.19
		3A	0.216	0.21	0.1957	0.1933	0.1788		3B	0.182	0.1895	0.1957	0.1988	0.216		0.19
	12-36 UNS	2A	0.2151	0.2096	0.1971	0.1941	0.1821		2B	0.186	0.192	0.198	0.2019	0.216		0.19
	12-40 UNS	2A	0.2151	0.21	0.1989	0.196	0.1835		2B	0.189	0.195	0.1998	0.2035	0.216		0.19
	12-48 UNS	2A	0.2152	0.2107	0.2017	0.1991	0.1904		2B	0.193	0.198	0.2025	0.2059	0.216		0.19
	12-56 UNS	2A	0.2153	0.2112	0.2037	0.2012	0.1941		2B	0.197	0.201	0.2044	0.2076	0.216		0.19
0.25	1/4-20 UNC	1A	0.2489	0.2367	0.2164	0.2108	0.1894		1B	0.196	0.207	0.2175	0.2248	0.25		0.207
		2A	0.2489	0.2408	0.2164	0.2127	0.1894		2B	0.196	0.207	0.2175	0.2224	0.25		0.207
		3A	0.25	0.2419	0.2175	0.2147	0.1905		3B	0.196	0.2067	0.2175	0.2211	0.25		0.207
	1/4-24 UNS	2A	0.2489	0.2417	0.2218	0.2181	0.1993		2B	0.205	0.215	0.2229	0.2277	0.25		0.207

	1/4-27 UNS	2A	0.249	0.2423	0.2249	0.2214	0.2049		2B	0.21	0.219	0.2259	0.2304	0.25		0.207
	1/4-28 UNF	1A	0.249	0.2392	0.2258	0.2208	0.2064		1B	0.211	0.22	0.2268	0.2333	0.25		0.22
		2A	0.249	0.2425	0.2258	0.2225	0.2064		2B	0.211	0.22	0.2268	0.2311	0.25		0.22
		3A	0.25	0.2435	0.2268	0.2243	0.2074		3B	0.211	0.219	0.2268	0.23	0.25		0.22
	1/4-32 UNEF	2A	0.249	0.243	0.2287	0.2255	0.2118		2B	0.216	0.224	0.2297	0.2339	0.25		0.224
		3A	0.25	0.244	0.2297	0.2273	0.2128		3B	0.216	0.2229	0.2297	0.2328	0.25		0.224
	1/4-36 UNS	2A	0.2491	0.2436	0.2311	0.228	0.2161		2B	0.22	0.226	0.232	0.236	0.25		0.226
	1/4-40 UNS	2A	0.2491	0.244	0.2329	0.23	0.2193		2B	0.223	0.229	0.2338	0.2376	0.25		0.226
	1/4-48 UNS	2A	0.2492	0.2447	0.2357	0.233	0.2243		2B	0.227	0.232	0.2365	0.2401	0.25		0.226
	1/4-56 UNS	2A	0.2492	0.2451	0.2376	0.235	0.228		2B	0.231	0.235	0.2384	0.2417	0.25		0.226
0.3125	5/16-18 UNC	1A	0.3113	0.2982	0.2752	0.2691	0.2452		1B	0.252	0.265	0.2764	0.2843	0.3125		0.266
		2A	0.3113	0.3026	0.2752	0.2712	0.2452		2B	0.252	0.265	0.2764	0.2817	0.3125		0.265
		3A	0.3125	0.3038	0.2764	0.2734	0.2464		3B	0.252	0.263	0.2764	0.2803	0.3125		0.265
	5/16-20 UN	2A	0.3113	0.3032	0.2788	0.2748	0.2518		2B	0.258	0.27	0.28	0.2852	0.3125		0.265
		3A	0.3125	0.3044	0.28	0.277	0.253		3B	0.258	0.268	0.28	0.2839	0.3125		0.265
	5/16-24 UNF	1A	0.3114	0.3006	0.2843	0.2788	0.2618		1B	0.267	0.277	0.2854	0.2925	0.3125		0.277
		2A	0.3114	0.3042	0.2843	0.2806	0.2618		2B	0.267	0.277	0.2854	0.2902	0.3125		0.277
		3A	0.3125	0.3053	0.2854	0.2827	0.2629		3B	0.267	0.2754	0.2854	0.289	0.3125		0.277
	5/16-27 UNS	2A	0.3115	0.3048	0.2874	0.2839	0.2674		2B	0.272	0.281	0.2884	0.2929	0.3125		0.277
	5/16-28 UN	2A	0.3115	0.305	0.2883	0.2849	0.2689		2B	0.274	0.282	0.2893	0.2937	0.3125		0.277
		3A	0.3125	0.306	0.2893	0.2867	0.2699		3B	0.274	0.2807	0.2893	0.2926	0.3125		0.277
	5/16-32 UNEF	2A	0.3115	0.3055	0.2912	0.288	0.2743		2B	0.279	0.286	0.2922	0.2964	0.3125		0.287
		3A	0.3125	0.3065	0.2922	0.2898	0.2753		3B	0.279	0.2847	0.2922	0.2953	0.3125		0.287
	5/16-36 UNS	2A	0.3116	0.3061	0.2936	0.2905	0.2785		2B	0.282	0.289	0.2945	0.2985	0.3125		0.289
	5/16-40 UNS	2A	0.3116	0.3065	0.2954	0.2925	0.2818		2B	0.285	0.291	0.2963	0.3001	0.3125		0.289
	5/16-48 UNS	2A	0.3117	0.3072	0.2982	0.2955	0.2869		2B	0.29	0.295	0.299	0.3026	0.3125		0.289
0.375	3/8-16 UNC	1A	0.3737	0.3595	0.3331	0.3266	0.2992		1B	0.307	0.321	0.3344	0.3429	0.375		0.32
		2A	0.3737	0.3643	0.3331	0.3287	0.2992		2B	0.307	0.321	0.3344	0.3401	0.375		0.32
		3A	0.375	0.3656	0.3344	0.3311	0.3005		3B	0.307	0.3182	0.3344	0.3387	0.375		0.32
	3/8-18 UNS	2A	0.3737	0.365	0.3376	0.3333	0.3076		2B	0.315	0.328	0.3389	0.3445	0.375		0.32
	3/8-20 UN	2A	0.3738	0.3657	0.3413	0.3372	0.3143		2B	0.321	0.332	0.3425	0.3479	0.375		0.32
		3A	0.375	0.3669	0.3425	0.3394	0.3155		3B	0.321	0.3297	0.3425	0.3465	0.375		0.32
	3/8-24 UNF	1A	0.3739	0.3631	0.3468	0.3411	0.3243		1B	0.33	0.34	0.3479	0.3553	0.375		0.34
		2A	0.3739	0.3667	0.3468	0.343	0.3243		2B	0.33	0.34	0.3479	0.3528	0.375		0.34
	3/8-24 UNF	3A	0.375	0.3678	0.3479	0.345	0.3254		3B	0.33	0.3372	0.3479	0.3516	0.375		0.34
	3/8-27 UNS	2A	0.3739	0.3672	0.3498	0.3462	0.3298		2B	0.335	0.344	0.3509	0.3556	0.375		0.34
	3/8-28 UN	2A	0.3739	0.3674	0.3507	0.3471	0.3313		2B	0.336	0.345	0.3518	0.3564	0.375		0.34
		3A	0.375	0.3685	0.3518	0.3491	0.3324		3B	0.336	0.3426	0.3518	0.3553	0.375		0.34
	3/8-32 UNEF	2A	0.374	0.368	0.3537	0.3503	0.3368		2B	0.341	0.349	0.3547	0.3591	0.375		0.349

		3A	0.375	0.369	0.3547	0.3522	0.3378		3B	0.341	0.3469	0.3547	0.358	0.375		0.349
	3/8-36 UNS	2A	0.374	0.3685	0.356	0.3528	0.3409		2B	0.345	0.352	0.357	0.3612	0.375		0.351
	3/8-40 UNS	2A	0.3741	0.369	0.3579	0.3548	0.3443		2B	0.348	0.354	0.3588	0.3628	0.375		0.351
0.39	0.390-27 UNS	2A	0.3889	0.3822	0.3648	0.3612	0.3448		2B	0.35	0.359	0.3659	0.3706	0.39		0.36
0.4375	7/16-14 UNC	1A	0.4361	0.4206	0.3897	0.3826	0.3511		1B	0.36	0.376	0.3911	0.4003	0.4375		0.378
		2A	0.4361	0.4258	0.3897	0.385	0.3511		2B	0.36	0.376	0.3911	0.3972	0.4375		0.378
		3A	0.4375	0.4272	0.3911	0.3876	0.3525		3B	0.36	0.3717	0.3911	0.3957	0.4375		0.378
	7/16-16 UN	2A	0.4361	0.4267	0.3955	0.3909	0.3616		2B	0.37	0.384	0.3969	0.4028	0.4375		0.378
		3A	0.4375	0.4281	0.3969	0.3935	0.363		3B	0.37	0.38	0.3969	0.4014	0.4375		0.378
	7/16-18 UNS	2A	0.4362	0.4275	0.4001	0.3958	0.3701		2B	0.377	0.39	0.4014	0.407	0.4375		0.378
	7/16-20 UNF	1A	0.4362	0.424	0.4037	0.3975	0.3767		1B	0.383	0.395	0.405	0.4131	0.4375		0.395
		2A	0.4362	0.4281	0.4037	0.3995	0.3767		2B	0.383	0.395	0.405	0.4104	0.4375		0.395
		3A	0.4375	0.4294	0.405	0.4019	0.378		3B	0.383	0.3916	0.405	0.4091	0.4375		0.395
	7/16-24 UNS	2A	0.4364	0.4292	0.4093	0.4055	0.3868		2B	0.392	0.402	0.4104	0.4153	0.4375		0.395
	7/16-27 UNS	2A	0.4364	0.4297	0.4123	0.4087	0.3923		2B	0.397	0.406	0.4134	0.4181	0.4375		0.395
	7/16-28 UNEF	2A	0.4364	0.4299	0.4132	0.4096	0.3938		2B	0.399	0.407	0.4143	0.4189	0.4375		0.408
		3A	0.4375	0.431	0.4143	0.4116	0.3949		3B	0.399	0.4051	0.4143	0.4178	0.4375		0.408
	7/16-32 UN	2A	0.4365	0.4305	0.4162	0.4128	0.3993		2B	0.404	0.411	0.4172	0.4216	0.4375		0.408
		3A	0.4375	0.4315	0.4172	0.4147	0.4003		3B	0.404	0.4094	0.4172	0.4205	0.4375		0.408
0.5	1/2-12 UNS	2A	0.4984	0.487	0.4443	0.4389	0.3992		2B	0.41	0.428	0.4459	0.4529	0.5		0.428
		3A	0.5	0.4886	0.4459	0.4419	0.4008		3B	0.41	0.4223	0.4459	0.4511	0.5		0.428
	1/2-13 UNC	1A	0.4985	0.4822	0.4485	0.4411	0.4069		1B	0.417	0.434	0.45	0.4597	0.5		0.428
		2A	0.4985	0.4876	0.4485	0.4435	0.4069		2B	0.417	0.434	0.45	0.4565	0.5		0.428
		3A	0.5	0.4891	0.45	0.4463	0.4084		3B	0.417	0.4284	0.45	0.4548	0.5		0.428
	1/2-14 UNS	2A	0.4985	0.4882	0.4521	0.4471	0.4135		2B	0.423	0.438	0.4536	0.4601	0.5		0.428
	1/2-16 UN	2A	0.4986	0.4892	0.458	0.4533	0.4241		2B	0.432	0.446	0.4594	0.4655	0.5		0.428
		3A	0.5	0.4906	0.4594	0.4559	0.4255		3B	0.432	0.4419	0.4594	0.464	0.5		0.428
	1/2-18 UNS	2A	0.4987	0.49	0.4626	0.4582	0.4326		2B	0.44	0.453	0.4639	0.4697	0.5		0.428
	1/2-20 UNF	1A	0.4987	0.4865	0.4662	0.4598	0.4392		1B	0.446	0.457	0.4675	0.4759	0.5		0.458
		2A	0.4987	0.4906	0.4662	0.4619	0.4392		2B	0.446	0.457	0.4675	0.4731	0.5		0.458
		3A	0.5	0.4919	0.4675	0.4643	0.4405		3B	0.446	0.4537	0.4675	0.4717	0.5		0.458
	1/2-24 UNS	2A	0.4988	0.4916	0.4717	0.4678	0.4492		2B	0.455	0.465	0.4729	0.478	0.5		0.458
	1/2-27 UNS	2A	0.4989	0.4922	0.4748	0.4711	0.4548		2B	0.46	0.469	0.4759	0.4807	0.5		0.458
	1/2-28 UNEF	2A	0.4989	0.4924	0.4757	0.472	0.4563		2B	0.461	0.47	0.4768	0.4816	0.5		0.47
		3A	0.5	0.4935	0.4768	0.474	0.4574		3B	0.461	0.4676	0.4768	0.4804	0.5		0.47
	1/2-32 UN	2A	0.499	0.493	0.4787	0.4752	0.4618		2B	0.466	0.474	0.4797	0.4842	0.5		0.47
		3A	0.5	0.494	0.4797	0.4771	0.4628		3B	0.466	0.4719	0.4797	0.4831	0.5		0.47
0.5625	9/16-12 UNC	1A	0.5609	0.5437	0.5068	0.499	0.4617		1B	0.472	0.49	0.5084	0.5186	0.5625		0.49
		2A	0.5609	0.5495	0.5068	0.5016	0.4617		2B	0.472	0.49	0.5084	0.5152	0.5625		0.49

		3A	0.5625	0.5511	0.5084	0.5045	0.4633		3B	0.472	0.4843	0.5084	0.5135	0.5625		0.49
	9/16-14 UNS	2A	0.561	0.5507	0.5146	0.5096	0.476		2B	0.485	0.501	0.5161	0.5226	0.5625		0.49
	9/16-16 UN	2A	0.5611	0.5517	0.5205	0.5158	0.4866		2B	0.495	0.509	0.5219	0.528	0.5625		0.49
		3A	0.5625	0.5531	0.5219	0.5184	0.488		3B	0.495	0.504	0.5219	0.5265	0.5625		0.49
	9/16-18 UNF	1A	0.5611	0.548	0.525	0.5182	0.495		1B	0.502	0.515	0.5264	0.5353	0.5625		0.515
		2A	0.5611	0.5524	0.525	0.5205	0.495		2B	0.502	0.515	0.5264	0.5323	0.5625		0.515
		3A	0.5625	0.5538	0.5264	0.523	0.4964		3B	0.502	0.5106	0.5264	0.5308	0.5625		0.515
	9/16-20 UN	2A	0.5612	0.5531	0.5287	0.5245	0.5017		2B	0.508	0.52	0.53	0.5355	0.5625		0.515
		3A	0.5625	0.5544	0.53	0.5268	0.503		3B	0.508	0.5162	0.53	0.5341	0.5625		0.515
	9/16-24 UNEF	2A	0.5613	0.5541	0.5342	0.5303	0.5117		2B	0.517	0.527	0.5354	0.5405	0.5625		0.527
		3A	0.5625	0.5553	0.5354	0.5325	0.5129		3B	0.517	0.5244	0.5354	0.5392	0.5625		0.527
	9/16-27 UNS	2A	0.5614	0.5547	0.5373	0.5336	0.5173		2B	0.522	0.531	0.5384	0.5432	0.5625		0.527
	9/16-28 UN	2A	0.5614	0.5549	0.5382	0.5345	0.5188		2B	0.524	0.532	0.5393	0.5441	0.5625		0.533
		3A	0.5625	0.556	0.5393	0.5365	0.5199		3B	0.524	0.5301	0.5393	0.5429	0.5625		0.533
	9/16-32 UN	2A	0.5615	0.5555	0.5412	0.5377	0.5243		2B	0.529	0.536	0.5422	0.5467	0.5625		0.533
		3A	0.5625	0.5565	0.5422	0.5396	0.5253		3B	0.529	0.5344	0.5422	0.5456	0.5625		0.533
0.625	5/8-11 UNC	1A	0.6234	0.6052	0.5644	0.5561	0.5152		1B	0.527	0.546	0.566	0.5767	0.625		0.546
		2A	0.6234	0.6113	0.5644	0.5589	0.5152		2B	0.527	0.546	0.566	0.5732	0.625		0.546
		3A	0.625	0.6129	0.566	0.5619	0.5168		3B	0.527	0.5391	0.566	0.5714	0.625		0.546
	5/8-12 UN	2A	0.6234	0.612	0.5693	0.5639	0.5242		2B	0.535	0.553	0.5709	0.578	0.625		0.553
		3A	0.625	0.6136	0.5709	0.5668	0.5258		3B	0.535	0.5463	0.5709	0.5762	0.625		0.553
	5/8-14 UNS	2A	0.6235	0.6132	0.5771	0.572	0.5385		2B	0.548	0.564	0.5786	0.5852	0.625		0.553
	5/8-16 UN	2A	0.6236	0.6142	0.583	0.5782	0.5491		2B	0.557	0.571	0.5844	0.5906	0.625		0.553
		3A	0.625	0.6156	0.5844	0.5808	0.5505		3B	0.557	0.5662	0.5844	0.589	0.625		0.553
	5/8-18 UNF	1A	0.6236	0.6105	0.5875	0.5805	0.5575		1B	0.565	0.578	0.5889	0.598	0.625		0.579
		2A	0.6236	0.6149	0.5875	0.5828	0.5575		2B	0.565	0.578	0.5889	0.5949	0.625		0.579
		3A	0.625	0.6163	0.5889	0.5854	0.5589		3B	0.565	0.573	0.5889	0.5934	0.625		0.579
	5/8-20 UN	2A	0.6237	0.6156	0.5912	0.5869	0.5642		2B	0.571	0.582	0.5925	0.5981	0.625		0.579
		3A	0.625	0.6169	0.5925	0.5893	0.5655		3B	0.571	0.5787	0.5925	0.5967	0.625		0.579
	5/8-24 UNEF	2A	0.6238	0.6166	0.5967	0.5927	0.5742		2B	0.58	0.59	0.5979	0.6031	0.625		0.59
		3A	0.625	0.6178	0.5979	0.5949	0.5754		3B	0.58	0.5869	0.5979	0.6018	0.625		0.59
	5/8-27 UNS	2A	0.6239	0.6172	0.5998	0.596	0.5798		2B	0.585	0.594	0.6009	0.6059	0.625		0.59
	5/8-28 UN	2A	0.6239	0.6174	0.6007	0.5969	0.5813		2B	0.586	0.595	0.6018	0.6067	0.625		0.595
		3A	0.625	0.6185	0.6018	0.599	0.5824		3B	0.586	0.5926	0.6018	0.6055	0.625		0.595
	5/8-32 UN	2A	0.6239	0.6179	0.6036	0.6	0.5867		2B	0.591	0.599	0.6047	0.6093	0.625		0.595
		3A	0.625	0.619	0.6047	0.602	0.5878		3B	0.591	0.5969	0.6047	0.6082	0.625		0.595
0.6875	11/16-12 UN	2A	0.6859	0.6745	0.6318	0.6264	0.5867		2B	0.597	0.615	0.6334	0.6405	0.6875		0.616
		3A	0.6875	0.6761	0.6334	0.6293	0.5883		3B	0.597	0.6085	0.6334	0.6387	0.6875		0.616
	11/16-16 UN	2A	0.6861	0.6767	0.6455	0.6407	0.6116		2B	0.62	0.634	0.6469	0.6531	0.6875		0.616

		3A	0.6875	0.6781	0.6469	0.6433	0.613		3B	0.62	0.6284	0.6469	0.6515	0.6875		0.616
	11/16-20 UN	2A	0.6862	0.6781	0.6537	0.6494	0.6267		2B	0.633	0.645	0.655	0.6606	0.6875		0.616
		3A	0.6875	0.6794	0.655	0.6518	0.628		3B	0.633	0.6412	0.655	0.6592	0.6875		0.616
	11/16-24 UNEF	2A	0.6863	0.6791	0.6592	0.6552	0.6367		2B	0.642	0.652	0.6604	0.6656	0.6875		0.652
		3A	0.6875	0.6803	0.6604	0.6574	0.6379		3B	0.642	0.6494	0.6604	0.6643	0.6875		0.652
	11/16-28 UN	2A	0.6864	0.6799	0.6632	0.6594	0.6438		2B	0.649	0.657	0.6643	0.6692	0.6875		0.652
		3A	0.6875	0.681	0.6643	0.6615	0.6449		3B	0.649	0.6551	0.6643	0.668	0.6875		0.652
	11/16-32 UN	2A	0.6864	0.6804	0.6661	0.6625	0.6492		2B	0.654	0.661	0.6672	0.6718	0.6875		0.652
		3A	0.6875	0.6815	0.6672	0.6645	0.6503		3B	0.654	0.6594	0.6672	0.6707	0.6875		0.652
0.75	3/4-10 UNC	1A	0.7482	0.7288	0.6832	0.6744	0.6291		1B	0.642	0.663	0.685	0.6965	0.75		0.663
		2A	0.7482	0.7353	0.6832	0.6773	0.6291		2B	0.642	0.663	0.685	0.6927	0.75		0.663
		3A	0.75	0.7371	0.685	0.6806	0.6309		3B	0.642	0.6545	0.685	0.6907	0.75		0.663
	3/4-12 UN	2A	0.7483	0.7369	0.6942	0.6887	0.6491		2B	0.66	0.678	0.6959	0.7031	0.75		0.68
		3A	0.75	0.7386	0.6959	0.6918	0.6508		3B	0.66	0.6707	0.6959	0.7013	0.75		0.68
	3/4-14 UNS	2A	0.7485	0.7382	0.7021	0.697	0.6635		2B	0.673	0.688	0.7036	0.7103	0.75		0.68
	3/4-16 UNF	1A	0.7485	0.7343	0.7079	0.7004	0.674		1B	0.682	0.696	0.7094	0.7192	0.75		0.697
		2A	0.7485	0.7391	0.7079	0.7029	0.674		2B	0.682	0.696	0.7094	0.7159	0.75		0.697
		3A	0.75	0.7406	0.7094	0.7056	0.6755		3B	0.682	0.6908	0.7094	0.7143	0.75		0.697
	3/4-18 UNS	2A	0.7486	0.7399	0.7125	0.7079	0.6825		2B	0.69	0.703	0.7139	0.7199	0.75		0.697
	3/4-20 UNEF	2A	0.7487	0.7406	0.7162	0.7118	0.6892		2B	0.696	0.707	0.7175	0.7232	0.75		0.707
		3A	0.75	0.7419	0.7175	0.7142	0.6905		3B	0.696	0.7037	0.7175	0.7218	0.75		0.707
0.75	3/4-24 UNS	2A	0.7488	0.7416	0.7217	0.7176	0.6992		2B	0.705	0.715	0.7229	0.7282	0.75		0.707
	3/4-24 UNS	2A	0.7488	0.7421	0.7247	0.7208	0.7047		2B	0.71	0.719	0.7259	0.731	0.75		0.707
	3/4-28 UN	2A	0.7488	0.7423	0.7256	0.7218	0.7062		2B	0.711	0.72	0.7268	0.7318	0.75		0.72
		3A	0.75	0.7435	0.7268	0.7239	0.7074		3B	0.711	0.7176	0.7268	0.7305	0.75		0.72
	3/4-32 UN	2A	0.7489	0.7429	0.7286	0.725	0.7117		2B	0.716	0.724	0.7297	0.7344	0.75		0.72
		3A	0.75	0.744	0.7297	0.727	0.7128		3B	0.716	0.7219	0.7297	0.7333	0.75		0.72
0.8125	13/16-10 UNC	2A	0.8107	0.7978	0.7475	0.7416	0.6934		2B	0.7045	0.7255	0.7475	0.759	0.8125		0.74
		3A	0.8125	0.7996	0.7493	0.7449	0.6898		3B	0.7045	0.7255	0.7475	0.7552	0.8125		0.74
	13/16-12 UN	2A	0.8108	0.7994	0.7567	0.7512	0.7116		2B	0.722	0.74	0.7584	0.7656	0.8125		0.74
		3A	0.8125	0.8011	0.7584	0.7543	0.7133		3B	0.722	0.7329	0.7584	0.7638	0.8125		0.74
	13/16-16 UN	2A	0.811	0.8016	0.7704	0.7655	0.7365		2B	0.745	0.759	0.7719	0.7782	0.8125		0.759
		3A	0.8125	0.8031	0.7719	0.7683	0.738		3B	0.745	0.7533	0.7719	0.7766	0.8125		0.759
	13/16-20 UNEF	2A	0.8112	0.8031	0.7787	0.7743	0.7517		2B	0.758	0.77	0.78	0.7857	0.8125		0.769
		3A	0.8125	0.8044	0.78	0.7767	0.753		3B	0.758	0.7662	0.78	0.7843	0.8125		0.796
	13/16-28 UN	2A	0.8113	0.8048	0.7881	0.7843	0.7687		2B	0.774	0.782	0.7893	0.7943	0.8125		0.796
		3A	0.8125	0.806	0.7893	0.7864	0.7699		3B	0.774	0.7801	0.7893	0.793	0.8125		0.796
	13/16-32 UN	2A	0.8114	0.8054	0.7911	0.7875	0.7742		2B	0.779	0.786	0.7922	0.7969	0.8125		0.796
		3A	0.8125	0.8065	0.7922	0.7895	0.7753		3B	0.779	0.7844	0.7922	0.7958	0.8125		0.796

0.875	7/8-9 UNC	1A	0.8731	0.8523	0.8009	0.7914	0.7408		1B	0.755	0.778	0.8028	0.8151	0.875		0.78
		2A	0.8731	0.8592	0.8009	0.7946	0.7408		2B	0.755	0.778	0.8028	0.811	0.875		0.78
		3A	0.875	0.8611	0.8028	0.7981	0.7427		3B	0.755	0.7681	0.8028	0.8089	0.875		0.78
	7/8-10 UNS	2A	0.8732	0.8603	0.8082	0.8022	0.7542		2B	0.767	0.788	0.81	0.8178	0.875		0.78
	7/8-12 UN	2A	0.8733	0.8619	0.8192	0.8137	0.7741		2B	0.785	0.803	0.8209	0.8281	0.875		0.805
		3A	0.875	0.8636	0.8209	0.8168	0.7758		3B	0.785	0.7948	0.8209	0.8263	0.875		0.805
	7/8-14 UNF	1A	0.8734	0.8579	0.827	0.8189	0.7884		1B	0.798	0.814	0.8286	0.8392	0.875		0.814
		2A	0.8734	0.8631	0.827	0.8216	0.7884		2B	0.798	0.814	0.8286	0.8356	0.875		0.814
		3A	0.875	0.8647	0.8286	0.8245	0.79		3B	0.798	0.8068	0.8286	0.8339	0.875		0.814
	7/8-16 UN	2A	0.8735	0.8641	0.8329	0.828	0.79		2B	0.807	0.821	0.8344	0.8407	0.875		0.821
		3A	0.875	0.8656	0.8344	0.8308	0.8005		3B	0.807	0.8158	0.8344	0.8391	0.875		0.821
	7/8-18 UNS	2A	0.8736	0.8649	0.8375	0.8329	0.8075		2B	0.815	0.828	0.8389	0.8449	0.875		0.821
	7/8-20 UNEF	2A	0.8737	0.8656	0.8412	0.8368	0.8142		2B	0.821	0.832	0.8425	0.8482	0.875		0.833
		3A	0.875	0.8669	0.8425	0.8392	0.8155		3B	0.821	0.8287	0.8425	0.8468	0.875		0.833
	7/8-24 UNS	2A	0.8738	0.8666	0.8467	0.8426	0.8242		2B	0.83	0.84	0.8479	0.8532	0.875		0.833
	7/8-27 UNS	2A	0.8738	0.8671	0.8497	0.8458	0.8297		2B	0.835	0.844	0.8509	0.856	0.875		0.833
	7/8-28 UN	2A	0.8738	0.8673	0.8506	0.8468	0.8312		2B	0.836	0.845	0.8518	0.8568	0.875		0.845
		3A	0.875	0.8685	0.8518	0.8489	0.8324		3B	0.836	0.8426	0.8518	0.8555	0.875		0.845
	7/8-32 UN	2A	0.8739	0.8679	0.8536	0.85	0.8367		2B	0.841	0.849	0.8547	0.8594	0.875		0.845
		3A	0.875	0.869	0.8547	0.852	0.8378		3B	0.841	0.8469	0.8547	0.8583	0.875		0.845
0.9375	15/16-9 UNC	2A	0.9358	0.9219	0.8636	0.8573	0.8035		2B	0.8175	0.8405	0.8653	0.8735	0.9375		0.865
		3A	0.9375	0.9236	0.8653	0.8606	0.8052		3B	0.8175	0.8306	0.8653	0.8714	0.9375		0.865
	15/16-12 UN	2A	0.9358	0.9244	0.8817	0.876	0.8366		2B	0.847	0.865	0.8834	0.8908	0.9375		0.865
		3A	0.9375	0.9261	0.8834	0.8793	0.8383		3B	0.847	0.8575	0.8834	0.8889	0.9375		0.865
	15/16-16 UN	2A	0.936	0.9266	0.8954	0.8904	0.8615		2B	0.87	0.884	0.8969	0.9034	0.9375		0.885
		3A	0.9375	0.9281	0.8969	0.8932	0.863		3B	0.87	0.8783	0.8969	0.9018	0.9375		0.885
	15/16-20 UNEF	2A	0.9361	0.928	0.9036	0.8991	0.8766		2B	0.883	0.895	0.905	0.9109	0.9375		0.895
		3A	0.9375	0.9294	0.905	0.9016	0.878		3B	0.883	0.8912	0.905	0.9094	0.9375		0.895
	15/16-28 UN	2A	0.9363	0.9298	0.9131	0.9091	0.8937		2B	0.899	0.907	0.9143	0.9195	0.9375		0.895
		3A	0.9375	0.931	0.9143	0.9113	0.8949		3B	0.899	0.9051	0.9143	0.9182	0.9375		0.895
	15/16-32 UN	2A	0.9364	0.9304	0.9161	0.9123	0.8992		2B	0.904	0.911	0.9172	0.9221	0.9375		0.895
		3A	0.9375	0.9315	0.9172	0.9144	0.9003		3B	0.904	0.9094	0.9172	0.9209	0.9375		0.895
1	1-8 UNC	1A	0.998	0.9755	0.9168	0.9067	0.8492		1B	0.865	0.89	0.9188	0.932	1		0.89
		2A	0.998	0.983	0.9168	0.91	0.8492		2B	0.865	0.89	0.9188	0.9276	1		0.89
		3A	1	0.985	0.9188	0.9137	0.8512		3B	0.865	0.8797	0.9188	0.9254	1		0.89
	1-10 UNS	2A	0.9982	0.9853	0.9332	0.927	0.8792		2B	0.892	0.913	0.935	0.943	1		0.93
	1-12 UNF	1A	0.9982	0.981	0.9441	0.9353	0.899		1B	0.91	0.928	0.9459	0.9573	1		0.93
		2A	0.9982	0.9868	0.9441	0.9382	0.899		2B	0.91	0.928	0.9459	0.9535	1		0.93
		3A	1	0.9886	0.9459	0.9415	0.9008		3B	0.91	0.9198	0.9459	0.9516	1		0.93

	1-14 UNS	1A	0.9983	0.9829	0.9519	0.9435	0.9132		1B	0.923	0.938	0.9536	0.9645	1		0.938
		2A	0.9983	0.988	0.9519	0.9463	0.9132		2B	0.923	0.938	0.9536	0.9609	1		0.938
		3A	1	0.9897	0.9536	0.9494	0.9149		3B	0.923	0.9315	0.9536	0.959	1		0.938
	1-16 UN	2A	0.9985	0.9891	0.9579	0.9529	0.924		2B	0.932	0.946	0.9594	0.9659	1		0.947
		3A	1	0.9906	0.9594	0.9557	0.9255		3B	0.932	0.9408	0.9594	0.9643	1		0.947
	1-18 UNS	2A	0.9986	0.9899	0.9625	0.9578	0.9325		2B	0.94	0.953	0.9639	0.9701	1		0.947
	1-20 UNEF	2A	0.9986	0.9905	0.9661	0.9616	0.9391		2B	0.946	0.957	0.9675	0.9734	1		0.947
		3A	1	0.9919	0.9675	0.9641	0.9405		3B	0.946	0.9537	0.9675	0.9719	1		0.947
	1-24 UNS	2A	0.9987	0.9915	0.9716	0.9674	0.9491		2B	0.955	0.965	0.9729	0.9784	1		0.947
	1-27 UNS	2A	0.9988	0.9921	0.9747	0.9707	0.9547		2B	0.96	0.969	0.9759	0.9811	1		0.947
	1-28 UN	2A	0.9988	0.9923	0.9756	0.9716	0.9562		2B	0.961	0.97	0.9768	0.982	1		0.97
		3A	1	0.9935	0.9768	0.9738	0.9574		3B	0.961	0.9676	0.9768	0.9807	1		0.97
	1-32 UN	2A	0.9989	0.9929	0.9786	0.9748	0.9617		2B	0.966	0.974	0.9797	0.9846	1		0.97
		3A	1	0.994	0.9797	0.9769	0.9628		3B	0.966	0.9719	0.9797	0.9834	1		0.97
1.0625	1 1/16-8 UN	2A	1.0605	1.0455	0.9793	0.9725	0.9117		2B	0.927	0.952	0.9813	0.9902	1.0625		0.99
		3A	1.0625	1.0475	0.9813	0.9762	0.9137		3B	0.927	0.9422	0.9813	0.988	1.0625		0.99
	1 1/16-8 UNC	2A	1.0605	1.0455	0.9522	0.9454	0.8440		2B	0.9115	0.9365	0.9658	0.9747	1.0625		0.99
	1 1/16-12 UNC	2A	1.0608	1.0494	1.0067	1.001	0.9616		2B	0.972	0.99	1.0084	1.0158	1.0625		0.99
		3A	1.0625	1.0511	1.0084	1.0042	0.9633		3B	0.972	0.9823	1.0084	1.0139	1.0625		0.99
	1 1/16-16 UNC	2A	1.061	1.0516	1.0204	1.0154	0.9865		2B	0.995	1.009	1.0219	1.0284	1.0625		1.059
		3A	1.0625	1.0531	1.0219	1.0182	0.988		3B	0.995	1.0033	1.0219	1.0268	1.0625		1.059
	1 1/16-18 UNEF	2A	1.0611	1.0524	1.025	1.0203	0.995		2B	1.002	1.015	1.0264	1.0326	1.0625		1.015
		3A	1.0625	1.0538	1.0264	1.0228	0.9964		3B	1.002	1.0105	1.0264	1.031	1.0625		1.015
	1 1/16-20 UN	2A	1.0611	1.053	1.0286	1.0241	1.0016		2B	1.008	1.02	1.03	1.0359	1.0625		1.015
		3A	1.0625	1.0544	1.03	1.0266	1.003		3B	1.008	1.0162	1.03	1.0344	1.0625		1.015
	1 1/16-28 UN	2A	1.0613	1.0548	1.0381	1.0341	1.0187		2B	1.024	1.032	1.0393	1.0445	1.0625		1.015
		3A	1.0625	1.056	1.0393	1.0363	1.0199		3B	1.024	1.0301	1.0393	1.0432	1.0625		1.015
1.125	1 1/8-7 UNC	1A	1.1228	1.0982	1.03	1.0191	0.9527		1B	0.97	0.998	1.0322	1.0463	1.125		1
		2A	1.1228	1.1064	1.03	1.0228	0.9527		2B	0.97	0.998	1.0322	1.0416	1.125		1
		3A	1.125	1.1086	1.0322	1.0268	0.9549		3B	0.97	0.9875	1.0322	1.0393	1.125		1
	1 1/8-8 UN	2A	1.1229	1.1079	1.0417	1.0348	0.9741		2B	0.99	1.015	1.0438	1.0528	1.125		1.015
		3A	1.125	1.11	1.0438	1.0386	0.9762		3B	0.99	1.0047	1.0438	1.0505	1.125		1.015
	1 1/8-8 UNC	2A	1.1229	1.1079	1.0146	1.0077	0.9064		2B	0.9690	0.9940	1.0228	1.0318	1.1250		1.015
	1 1/8-10 UNS	2A	1.1232	1.1103	1.0582	1.052	1.0042		2B	1.017	1.038	1.06	1.068	1.125		1.015
	1 1/8-12 UNF	1A	1.1232	1.106	1.0691	1.0601	1.024		1B	1.035	1.053	1.0709	1.0826	1.125		1.055
		2A	1.1232	1.1118	1.0691	1.0631	1.024		2B	1.035	1.053	1.0709	1.0787	1.125		1.055
		3A	1.125	1.1136	1.0709	1.0664	1.0258		3B	1.035	1.0448	1.0709	1.0768	1.125		1.055
	1 1/8-14 UNS	2A	1.1234	1.1131	1.077	1.0717	1.0384		2B	1.048	1.064	1.0786	1.0855	1.125		1.055
	1 1/8-16 UN	2A	1.1235	1.1141	1.0829	1.0779	1.049		2B	1.057	1.071	1.0844	1.0909	1.125		1.07



		3A	1.125	1.1156	1.0844	1.0807	1.0505		3B	1.057	1.0658	1.0844	1.0893	1.125		1.07
	1 1/8-18 UNEF	2A	1.1236	1.1149	1.0875	1.0828	1.0575		2B	1.065	1.078	1.0889	1.0951	1.125		1.078
		3A	1.125	1.1163	1.0889	1.0853	1.0589		3B	1.065	1.073	1.0889	1.0935	1.125		1.078
	1 1/8-20 UN	2A	1.1236	1.1155	1.0911	1.0866	1.0641		2B	1.071	1.082	1.0925	1.0984	1.125		1.082
		3A	1.125	1.1169	1.0925	1.0891	1.0655		3B	1.071	1.0787	1.0925	1.0969	1.125		1.082
	1 1/8-24 UNS	2A	1.1237	1.1165	1.0966	1.0924	1.0742		2B	1.08	1.09	1.0979	1.1034	1.125		1.082
	1 1/8-28 UN	2A	1.1238	1.1173	1.1006	1.0966	1.0812		2B	1.086	1.095	1.1018	1.107	1.125		1.095
		3A	1.125	1.1185	1.1018	1.0988	1.0824		3B	1.086	1.0926	1.1018	1.1057	1.125		1.095
1.1875	1 3/16-8 UN	2A	1.1854	1.1704	1.1042	1.0972	1.0366		2B	1.052	1.077	1.1063	1.1154	1.1875		1.115
		3A	1.1875	1.1725	1.1063	1.1011	1.0387		3B	1.052	1.0672	1.1063	1.1131	1.1875		1.115
	1 3/16-12 UN	2A	1.1858	1.1744	1.1317	1.1259	1.0866		2B	1.097	1.115	1.1334	1.1409	1.1875		1.115
		3A	1.1875	1.1761	1.1334	1.1291	1.0883		3B	1.097	1.1073	1.1334	1.139	1.1875		1.115
	1 3/16-16 UN	2A	1.186	1.1766	1.1454	1.1403	1.1115		2B	1.12	1.134	1.1469	1.1535	1.1875		1.135
		3A	1.1875	1.1781	1.1469	1.1431	1.113		3B	1.12	1.1283	1.1469	1.1519	1.1875		1.135
	1 3/16-18 UNEF	2A	1.186	1.1773	1.1499	1.145	1.1199		2B	1.127	1.14	1.1514	1.1577	1.1875		1.14
		3A	1.1875	1.1788	1.1514	1.1478	1.1214		3B	1.127	1.1355	1.1514	1.1561	1.1875		1.14
	1 3/16-20 UN	2A	1.1861	1.178	1.1536	1.1489	1.1266		2B	1.133	1.145	1.155	1.1611	1.1875		1.14
		3A	1.1875	1.1794	1.155	1.1515	1.128		3B	1.133	1.1412	1.155	1.1595	1.1875		1.14
	1 3/16-28 UN	2A	1.1863	1.1798	1.1631	1.159	1.1437		2B	1.149	1.157	1.1643	1.1696	1.1875		1.14
		3A	1.1875	1.181	1.1643	1.1612	1.1449		3B	1.149	1.1551	1.1643	1.1683	1.1875		1.14
1.25	1 1/4-7 UNC	1A	1.2478	1.2232	1.155	1.1439	1.0777		1B	1.095	1.123	1.1572	1.1716	1.25		1.125
		2A	1.2478	1.2314	1.155	1.1476	1.0777		2B	1.095	1.123	1.1572	1.1668	1.25		1.125
		3A	1.25	1.2336	1.1572	1.1517	1.0799		3B	1.095	1.1125	1.1572	1.1644	1.25		1.125
	1 1/4-8 UN	2A	1.2479	1.2329	1.1667	1.1597	1.0991		2B	1.115	1.14	1.1688	1.178	1.25		1.14
		3A	1.25	1.235	1.1688	1.1635	1.1012		3B	1.115	1.1297	1.1688	1.1757	1.25		1.14
	1 1/4-8 UNC	2A	1.2479	1.2329	1.1396	1.1326	1.0314		2B	1.0648	1.0898	1.1186	1.1278	1.2500		1.14
	1 1/4-10 UNS	2A	1.2481	1.2352	1.1831	1.1768	1.1291		2B	1.142	1.163	1.185	1.1932	1.25		1.14
	1 1/4-12 UNF	1A	1.2482	1.231	1.1941	1.1849	1.149		1B	1.16	1.178	1.1959	1.2079	1.25		1.18
		2A	1.2482	1.2368	1.1941	1.1879	1.149		2B	1.16	1.178	1.1959	1.2039	1.25		1.18
		3A	1.25	1.2386	1.1959	1.1913	1.1508		3B	1.16	1.1698	1.1959	1.2019	1.25		1.18
	1 1/4-14 UNS	2A	1.2484	1.2381	1.202	1.1966	1.1634		2B	1.173	1.188	1.2036	1.2106	1.25		1.18
	1 1/4-16 UN	2A	1.2485	1.2391	1.2079	1.2028	1.174		2B	1.182	1.196	1.2094	1.216	1.25		1.197
		3A	1.25	1.2406	1.2094	1.2056	1.1755		3B	1.182	1.1908	1.2094	1.2144	1.25		1.197
	1 1/4-18 UNEF	2A	1.2485	1.2398	1.2124	1.2075	1.1824		2B	1.19	1.203	1.2139	1.2202	1.25		1.203
		3A	1.25	1.2413	1.2139	1.2103	1.1839		3B	1.19	1.198	1.2139	1.2186	1.25		1.203
	1 1/4-20 UN	2A	1.2486	1.2405	1.2161	1.2114	1.1891		2B	1.196	1.207	1.2175	1.2236	1.25		1.207
		3A	1.25	1.2419	1.2175	1.214	1.1905		3B	1.196	1.2037	1.2175	1.222	1.25		1.207
	1 1/4-24 UNS	2A	1.2487	1.2415	1.2216	1.2173	1.1991		2B	1.205	1.215	1.2229	1.2285	1.25		1.207
	1 1/4-28 UN	2A	1.2488	1.2423	1.2256	1.2215	1.2062		2B	1.211	1.22	1.2268	1.2321	1.25		1.207

		3A	1.25	1.2435	1.2268	1.2237	1.2074		3B	1.211	1.2176	1.2268	1.2308	1.25		1.207
1.3125	1 5/16-8 UN	2A	1.3104	1.2954	1.2292	1.2221	1.1616		2B	1.177	1.202	1.2313	1.2405	1.3125		1.24
		3A	1.3125	1.2975	1.2313	1.226	1.1637		3B	1.177	1.1922	1.2313	1.2382	1.3125		1.24
	1 5/16-12 UN	2A	1.3108	1.2994	1.2567	1.2509	1.2116		2B	1.222	1.24	1.2584	1.2659	1.3125		1.24
		3A	1.3125	1.3011	1.2584	1.2541	1.2133		3B	1.222	1.2323	1.2584	1.264	1.3125		1.24
	1 5/16-16 UN	2A	1.311	1.3016	1.2704	1.2653	1.2365		2B	1.245	1.259	1.2719	1.2785	1.3125		1.26
		3A	1.3125	1.3031	1.2719	1.2681	1.238		3B	1.245	1.2533	1.2719	1.2769	1.3125		1.26
	1 5/16-18 UNEF	2A	1.311	1.3023	1.2749	1.27	1.2449		2B	1.252	1.265	1.2764	1.2827	1.3125		1.265
		3A	1.3125	1.3038	1.2764	1.2728	1.2464		3B	1.252	1.2605	1.2764	1.2811	1.3125		1.265
	1 5/16-20 UN	2A	1.3111	1.303	1.2786	1.2739	1.2516		2B	1.258	1.27	1.28	1.2861	1.3125		1.265
		3A	1.3125	1.3044	1.28	1.2765	1.253		3B	1.258	1.2662	1.28	1.2845	1.3125		1.265
	1 5/16-28 UN	2A	1.3113	1.3048	1.2881	1.284	1.2687		2B	1.274	1.282	1.2893	1.2946	1.3125		1.265
		3A	1.3125	1.306	1.2893	1.2862	1.2699		3B	1.274	1.2801	1.2893	1.2933	1.3125		1.265
1.375	1 3/8-6 UNC	1A	1.3726	1.3453	1.2643	1.2523	1.1742		1B	1.195	1.225	1.2667	1.2822	1.375		1.23
		2A	1.3726	1.3544	1.2643	1.2563	1.1742		2B	1.195	1.225	1.2667	1.2771	1.375		1.23
		3A	1.375	1.3568	1.2667	1.2607	1.1766		3B	1.195	1.2146	1.2667	1.2745	1.375		1.23
	1 3/8-8 UN	2A	1.3728	1.3578	1.2916	1.2844	1.224		2B	1.24	1.265	1.2938	1.3031	1.375		1.265
		3A	1.375	1.36	1.2938	1.2884	1.2262		3B	1.24	1.2547	1.2938	1.3008	1.375		1.265
	1 3/8-10 UNS	2A	1.3731	1.3602	1.3081	1.3018	1.2541		2B	1.267	1.288	1.31	1.3182	1.375		1.265
	1 3/8-12 UNF	1A	1.3731	1.3559	1.319	1.3096	1.2739		1B	1.285	1.303	1.3209	1.3332	1.375		1.305
		2A	1.3731	1.3617	1.319	1.3127	1.2739		2B	1.285	1.303	1.3209	1.3291	1.375		1.305
		3A	1.375	1.3636	1.3209	1.3162	1.2758		3B	1.285	1.2948	1.3209	1.327	1.375		1.305
	1 3/8-14 UNS	2A	1.3734	1.3631	1.327	1.3216	1.2884		2B	1.298	1.314	1.3286	1.3356	1.375		1.305
	1 3/8-16 UN	2A	1.3735	1.3641	1.3329	1.3278	1.299		2B	1.307	1.321	1.3344	1.341	1.375		1.321
		3A	1.375	1.3656	1.3344	1.3306	1.3005		3B	1.307	1.3158	1.3344	1.3394	1.375		1.321
	1 3/8-18 UNEF	2A	1.3735	1.3648	1.3374	1.3325	1.3074		2B	1.315	1.328	1.3389	1.3452	1.375		1.327
		3A	1.375	1.3663	1.3389	1.3353	1.3089		3B	1.315	1.323	1.3389	1.3436	1.375		1.327
	1 3/8-20 UN	2A	1.3736	1.3655	1.3411	1.3364	1.3141		2B	1.321	1.332	1.3425	1.3486	1.375		1.327
		3A	1.375	1.3669	1.3425	1.339	1.3155		3B	1.321	1.3287	1.3425	1.347	1.375		1.327
	1 3/8-24 UNS	2A	1.3737	1.3665	1.3466	1.3423	1.3241		2B	1.33	1.34	1.3479	1.3535	1.375		1.327
	1 3/8-28 UN	2A	1.3738	1.3673	1.3506	1.3465	1.3312		2B	1.336	1.345	1.3518	1.3571	1.375		1.327
		3A	1.375	1.3685	1.3518	1.3487	1.3324		3B	1.336	1.3426	1.3518	1.3558	1.375		1.327
1.4375	1 7/16-6 UN	2A	1.4351	1.4169	1.3268	1.3188	1.2367		2B	1.257	1.288	1.3292	1.3396	1.4375		1.365
		3A	1.4375	1.4193	1.3292	1.3232	1.2391		3B	1.257	1.2771	1.3292	1.337	1.4375		1.365
	1 7/16-8 UN	2A	1.4353	1.4203	1.3541	1.3469	1.2865		2B	1.302	1.327	1.3563	1.3657	1.4375		1.365
		3A	1.4375	1.4225	1.3563	1.3509	1.2887		3B	1.302	1.3172	1.3563	1.3634	1.4375		1.365
	1 7/16-12 UN	2A	1.4357	1.4243	1.3816	1.3757	1.3365		2B	1.347	1.365	1.3834	1.391	1.4375		1.365
		3A	1.4375	1.4261	1.3834	1.379	1.3383		3B	1.347	1.3573	1.3834	1.3891	1.4375		1.365
	1 7/16-16 UN	2A	1.4359	1.4265	1.3953	1.3901	1.3614		2B	1.37	1.384	1.3969	1.4037	1.4375		1.385

		3A	1.4375	1.4281	1.3969	1.393	1.363		3B	1.37	1.3783	1.3969	1.402	1.4375		1.385
	1 7/16-18 UNEF	2A	1.436	1.4273	1.3999	1.3949	1.3699		2B	1.377	1.39	1.4014	1.4079	1.4375		1.39
		3A	1.4375	1.4288	1.4014	1.3977	1.3714		3B	1.377	1.3855	1.4014	1.4062	1.4375		1.39
	1 7/16-20 UN	2A	1.4361	1.428	1.4036	1.3988	1.3766		2B	1.383	1.395	1.405	1.4112	1.4375		1.39
		3A	1.4375	1.4294	1.405	1.4014	1.378		3B	1.383	1.3912	1.405	1.4096	1.4375		1.39
	1 7/16-28 UN	2A	1.4362	1.4297	1.413	1.4088	1.3936		2B	1.399	1.407	1.4143	1.4198	1.4375		1.39
		3A	1.4375	1.431	1.4143	1.4112	1.3949		3B	1.399	1.4051	1.4143	1.4184	1.4375		1.39
1.5	1 1/2-6 UNC	1A	1.4976	1.4703	1.3893	1.3772	1.2992		1B	1.32	1.35	1.3917	1.4075	1.5		1.355
		2A	1.4976	1.4794	1.3893	1.3812	1.2992		2B	1.32	1.35	1.3917	1.4022	1.5		1.355
		3A	1.5	1.4818	1.3917	1.3856	1.3016		3B	1.32	1.3396	1.3917	1.3996	1.5		1.355
	1 1/2-8 UN	2A	1.4978	1.4828	1.4166	1.4093	1.349		2B	1.365	1.39	1.4188	1.4283	1.5		1.39
		3A	1.5	1.485	1.4188	1.4133	1.3512		3B	1.365	1.3797	1.4188	1.4259	1.5		1.39
	1 1/2-10 UNS	2A	1.4981	1.4852	1.4331	1.4267	1.3791		2B	1.392	1.413	1.435	1.4433	1.5		1.39
	1 1/2-12 UNF	1A	1.4981	1.4809	1.444	1.4344	1.3989		1B	1.41	1.428	1.4459	1.4584	1.5		1.43
		2A	1.4981	1.4867	1.444	1.4376	1.3989		2B	1.41	1.428	1.4459	1.4542	1.5		1.43
		3A	1.5	1.4886	1.4459	1.4411	1.4008		3B	1.41	1.4198	1.4459	1.4522	1.5		1.43
	1 1/2-14 UNS	2A	1.4983	1.488	1.4519	1.4464	1.4133		2B	1.423	1.438	1.4536	1.4608	1.5		1.43
	1 1/2-16 UN	2A	1.4984	1.489	1.4578	1.4526	1.4239		2B	1.432	1.446	1.4594	1.4662	1.5		1.447
		3A	1.5	1.4906	1.4594	1.4555	1.4255		3B	1.432	1.4408	1.4594	1.4645	1.5		1.447
	1 1/2-18 UNEF	2A	1.4985	1.4898	1.4624	1.4574	1.4324		2B	1.44	1.452	1.4639	1.4704	1.5		1.453
		3A	1.5	1.4913	1.4639	1.4602	1.4339		3B	1.44	1.448	1.4639	1.4687	1.5		1.453
	1 1/2-20 UN	2A	1.4986	1.4905	1.4661	1.4613	1.4391		2B	1.446	1.457	1.4675	1.4737	1.5		1.457
		3A	1.5	1.4919	1.4675	1.4639	1.4405		3B	1.446	1.4537	1.4675	1.4721	1.5		1.457
	1 1/2-24 UNS	2A	1.4987	1.4915	1.4716	1.4672	1.4491		2B	1.455	1.465	1.4729	1.4787	1.5		1.457
	1 1/2-28 UN	2A	1.4987	1.4922	1.4755	1.4713	1.4561		2B	1.461	1.47	1.4768	1.4823	1.5		1.457
		3A	1.5	1.4935	1.4768	1.4737	1.4574		3B	1.461	1.4676	1.4768	1.4809	1.5		1.457
	1 9/16-6 UN	2A	1.5601	1.5419	1.4518	1.4436	1.3617		2B	1.382	1.413	1.4542	1.4648	1.5625		1.5
		3A	1.5625	1.5443	1.4542	1.4481	1.3641		3B	1.382	1.4021	1.4542	1.4622	1.5625		1.5
1.5625	1 9/16-8 UN	2A	1.5603	1.5453	1.4791	1.4717	1.4115		2B	1.427	1.452	1.4813	1.4909	1.5625		1.5
		3A	1.5625	1.5475	1.4813	1.4758	1.4137		3B	1.427	1.4422	1.4813	1.4885	1.5625		1.5
	1 9/16-12 UN	2A	1.5607	1.5493	1.5066	1.5007	1.4615		2B	1.472	1.49	1.5084	1.516	1.5625		1.5
		3A	1.5625	1.5511	1.5084	1.504	1.4633		3B	1.472	1.4823	1.5084	1.5141	1.5625		1.5
	1 9/16-16 UN	2A	1.5609	1.5515	1.5203	1.5151	1.4864		2B	1.495	1.509	1.5219	1.5287	1.5625		1.509
		3A	1.5625	1.5531	1.5219	1.518	1.488		3B	1.495	1.5033	1.5219	1.527	1.5625		1.509
	1 9/16-18 UNEF	2A	1.561	1.5523	1.5249	1.5199	1.4949		2B	1.502	1.515	1.5264	1.5329	1.5625		1.515
		3A	1.5625	1.5538	1.5264	1.5227	1.4964		3B	1.502	1.5105	1.5264	1.5312	1.5625		1.515
	1 9/16-20 UN	2A	1.5611	1.553	1.5286	1.5238	1.5016		2B	1.508	1.52	1.53	1.5362	1.5625		1.515
		3A	1.5625	1.5544	1.53	1.5264	1.503		3B	1.508	1.5162	1.53	1.5346	1.5625		1.515
1.625	1 5/8-6 UN	2A	1.6225	1.6043	1.5142	1.506	1.4246		2B	1.445	1.475	1.5167	1.5274	1.625		1.51

		3A	1.625	1.6068	1.5167	1.5105	1.4271		3B	1.445	1.4646	1.5167	1.5247	1.625		1.51
	1 5/8-8 UN	2A	1.6228	1.6078	1.5416	1.5342	1.4784		2B	1.49	1.515	1.5438	1.5535	1.625		1.515
		3A	1.625	1.61	1.5438	1.5382	1.4806		3B	1.49	1.5047	1.5438	1.551	1.625		1.515
	1 5/8-10 UNS	2A	1.6231	1.6102	1.5581	1.5517	1.5041		2B	1.517	1.538	1.56	1.5683	1.625		1.515
	1 5/8-12 UN	2A	1.6232	1.6118	1.5691	1.5632	1.524		2B	1.535	1.553	1.5709	1.5785	1.625		1.554
		3A	1.625	1.6136	1.5709	1.5665	1.5258		3B	1.535	1.5448	1.5709	1.5766	1.625		1.554
	1 5/8-14 UNS	2A	1.6233	1.613	1.5769	1.5714	1.5383		2B	1.548	1.564	1.5786	1.5858	1.625		1.554
	1 5/8-16 UN	2A	1.6234	1.614	1.5828	1.5776	1.5489		2B	1.557	1.571	1.5844	1.5912	1.625		1.57
		3A	1.625	1.6156	1.5844	1.5805	1.5505		3B	1.557	1.5658	1.5844	1.5895	1.625		1.57
	1 5/8-18 UNEF	2A	1.6235	1.6148	1.5874	1.5824	1.5574		2B	1.565	1.578	1.5889	1.5954	1.625		1.579
		3A	1.625	1.6163	1.5889	1.5852	1.5589		3B	1.565	1.573	1.5889	1.5937	1.625		1.579
	1 5/8-20 UN	2A	1.6236	1.6155	1.5911	1.5863	1.5641		2B	1.571	1.582	1.5925	1.5987	1.625		1.579
		3A	1.625	1.6169	1.5925	1.5889	1.5655		3B	1.571	1.5787	1.5925	1.5971	1.625		1.579
	1 5/8-24 UNS	2A	1.6237	1.6165	1.5966	1.5922	1.5741		2B	1.58	1.59	1.5979	1.6037	1.625		1.579
1.6875	1 11/16-6 UN	2A	1.685	1.6668	1.5767	1.5684	1.4866		2B	1.507	1.538	1.5792	1.59	1.6875		1.63
		3A	1.6875	1.6693	1.5792	1.573	1.4891		3B	1.507	1.5271	1.5792	1.5873	1.6875		1.63
	1 11/16-8 UN	2A	1.6853	1.6703	1.6041	1.5966	1.5365		2B	1.552	1.577	1.6063	1.616	1.6875		1.63
		3A	1.6875	1.6725	1.6063	1.6007	1.5387		3B	1.552	1.5672	1.6063	1.6136	1.6875		1.63
	1 11/16-12 UN	2A	1.6857	1.6743	1.6316	1.6256	1.5865		2B	1.597	1.615	1.6334	1.6412	1.6875		1.63
		3A	1.6875	1.6761	1.6334	1.6289	1.5883		3B	1.597	1.6073	1.6334	1.6392	1.6875		1.63
	1 11/16-16 UN	2A	1.6859	1.6765	1.6453	1.64	1.6114		2B	1.62	1.634	1.6469	1.6538	1.6875		1.635
		3A	1.6875	1.6781	1.6469	1.6429	1.613		3B	1.62	1.6283	1.6469	1.6521	1.6875		1.635
	1 11/16-18 UNEF	2A	1.686	1.6773	1.6499	1.6448	1.6199		2B	1.627	1.64	1.6514	1.658	1.6875		1.64
		3A	1.6875	1.6788	1.6514	1.6476	1.6214		3B	1.627	1.6355	1.6514	1.6563	1.6875		1.64
	1 11/16-20 UN	2A	1.686	1.6779	1.6535	1.6487	1.6265		2B	1.633	1.645	1.655	1.6613	1.6875		1.64
		3A	1.6875	1.6794	1.655	1.6514	1.628		3B	1.633	1.6412	1.655	1.6597	1.6875		1.64
1.75	1 3/4-5 UNC	1A	1.7473	1.7165	1.6174	1.604	1.5092		1B	1.534	1.568	1.6201	1.6375	1.75		1.57
		2A	1.7473	1.7268	1.6174	1.6085	1.5092		2B	1.534	1.568	1.6201	1.6317	1.75		1.57
		3A	1.75	1.7295	1.6201	1.6134	1.5119		3B	1.534	1.5575	1.6201	1.6288	1.75		1.57
	1 3/4-6 UN	2A	1.7475	1.7293	1.6392	1.6309	1.5491		2B	1.57	1.6	1.6417	1.6525	1.75		1.57
		3A	1.75	1.7318	1.6417	1.6354	1.5516		3B	1.57	1.5896	1.6417	1.6498	1.75		1.57
	1 3/4-8 UN	2A	1.7477	1.7327	1.6665	1.659	1.5989		2B	1.615	1.64	1.6688	1.6786	1.75		1.64
		3A	1.75	1.735	1.6688	1.6632	1.6012		3B	1.615	1.6297	1.6688	1.6762	1.75		1.64
	1 3/4-10 UNS	2A	1.7481	1.7352	1.6831	1.6766	1.6291		2B	1.642	1.663	1.685	1.6934	1.75		1.64
	1 3/4-12 UN	2A	1.7482	1.7368	1.6941	1.6881	1.649		2B	1.66	1.678	1.6959	1.7037	1.75		1.68
		3A	1.75	1.7386	1.6959	1.6914	1.6508		3B	1.66	1.6698	1.6959	1.7017	1.75		1.68
	1 3/4-14 UNS	2A	1.7483	1.738	1.7019	1.6963	1.6632		2B	1.673	1.688	1.7036	1.7109	1.75		1.68
	1 3/4-16 UN	2A	1.7484	1.739	1.7078	1.7025	1.6739		2B	1.682	1.696	1.7094	1.7163	1.75		1.697
		3A	1.75	1.7406	1.7094	1.7054	1.6755		3B	1.682	1.6908	1.7094	1.7146	1.75		1.697

	1 3/4-18 UNS	2A	1.7485	1.7398	1.7124	1.7073	1.6824		2B	1.69	1.703	1.7139	1.7205	1.75		1.697
	1 3/4-20 UN	2A	1.7485	1.7404	1.716	1.7112	1.689		2B	1.696	1.707	1.7175	1.7238	1.75		1.707
		3A	1.75	1.7419	1.7175	1.7139	1.6905		3B	1.696	1.7037	1.7175	1.7222	1.75		1.707
1.8125	1 13/16-6 UN	2A	1.81	1.7918	1.7017	1.6933	1.6116		2B	1.632	1.663	1.7042	1.7151	1.8125		1.76
		3A	1.8125	1.7943	1.7042	1.6979	1.6141		3B	1.632	1.6521	1.7042	1.7124	1.8125		1.76
	1 13/16-8 UN	2A	1.8102	1.7952	1.729	1.7214	1.6614		2B	1.677	1.702	1.7313	1.7412	1.8125		1.76
		3A	1.8125	1.7975	1.7313	1.7256	1.6637		3B	1.677	1.6922	1.7313	1.7387	1.8125		1.76
	1 13/16-12 UN	2A	1.8107	1.7993	1.7566	1.7506	1.7115		2B	1.722	1.74	1.7584	1.7662	1.8125		1.76
		3A	1.8125	1.8011	1.7584	1.7539	1.7133		3B	1.722	1.7323	1.7584	1.7642	1.8125		1.76
	1 13/16-16 UN	2A	1.8109	1.8015	1.7703	1.765	1.7364		2B	1.745	1.759	1.7719	1.7788	1.8125		1.76
		3A	1.8125	1.8031	1.7719	1.7679	1.738		3B	1.745	1.7533	1.7719	1.7771	1.8125		1.76
	1 13/16-20 UN	2A	1.811	1.8029	1.7785	1.7737	1.7515		2B	1.758	1.77	1.78	1.7863	1.8125		1.76
		3A	1.8125	1.8044	1.78	1.7764	1.753		3B	1.758	1.7662	1.78	1.7847	1.8125		1.76
1.875	1 7/8-6 UN	2A	1.8725	1.8543	1.7642	1.7558	1.6741		2B	1.695	1.725	1.7667	1.7777	1.875		1.765
		3A	1.875	1.8568	1.7667	1.7604	1.6766		3B	1.695	1.7146	1.7667	1.7749	1.875		1.765
	1 7/8-8 UN	2A	1.8727	1.8577	1.7915	1.7838	1.7239		2B	1.74	1.765	1.7938	1.8038	1.875		1.765
		3A	1.875	1.86	1.7938	1.7881	1.7262		3B	1.74	1.7547	1.7938	1.8013	1.875		1.765
	1 7/8-10 UNS	2A	1.8731	1.8602	1.8081	1.8016	1.7541		2B	1.767	1.788	1.81	1.8184	1.875		1.765
	1 7/8-12 UN	2A	1.8732	1.8618	1.8191	1.8131	1.774		2B	1.785	1.803	1.8209	1.8287	1.875		1.804
		3A	1.875	1.8636	1.8209	1.8164	1.7758		3B	1.785	1.7948	1.8209	1.8267	1.875		1.804
	1 7/8-14 UNS	2A	1.8733	1.863	1.8269	1.8213	1.7883		2B	1.798	1.814	1.8286	1.8359	1.875		1.804
	1 7/8-16 UN	2A	1.8734	1.864	1.8328	1.8275	1.7989		2B	1.807	1.821	1.8344	1.8413	1.875		1.823
		3A	1.875	1.8656	1.8344	1.8304	1.8005		3B	1.807	1.8158	1.8344	1.8396	1.875		1.823
	1 7/8-18 UNS	2A	1.8735	1.8648	1.8374	1.8323	1.8074		2B	1.815	1.828	1.8389	1.8455	1.875		1.823
	1 7/8-20 UN	2A	1.8735	1.8654	1.841	1.8362	1.814		2B	1.821	1.832	1.8425	1.8488	1.875		1.823
		3A	1.875	1.8669	1.8425	1.8389	1.8155		3B	1.821	1.8287	1.8425	1.8472	1.875		1.823
1.9375	1 15/16-6 UN	2A	1.9349	1.9167	1.8266	1.8181	1.7365		2B	1.757	1.788	1.8292	1.8403	1.9375		1.88
		3A	1.9375	1.9193	1.8292	1.8228	1.7391		3B	1.757	1.7771	1.8292	1.8375	1.9375		1.88
	1 15/16-8 UN	2A	1.9352	1.9202	1.854	1.8463	1.7864		2B	1.802	1.827	1.8563	1.8663	1.9375		1.88
		3A	1.9375	1.9225	1.8563	1.8505	1.7887		3B	1.802	1.8172	1.8563	1.8638	1.9375		1.88
	1 15/16-12 UN	2A	1.9357	1.9243	1.8816	1.8755	1.8365		2B	1.847	1.865	1.8834	1.8913	1.9375		1.88
		3A	1.9375	1.9261	1.8834	1.8789	1.8383		3B	1.847	1.8573	1.8834	1.8893	1.9375		1.88
	1 15/16-16 UN	2A	1.9359	1.9265	1.8953	1.8899	1.8614		2B	1.87	1.884	1.8969	1.9039	1.9375		1.885
		3A	1.9375	1.9281	1.8969	1.8929	1.863		3B	1.87	1.8783	1.8969	1.9021	1.9375		1.885
	1 15/16-20 UN	2A	1.936	1.9279	1.9035	1.8986	1.8765		2B	1.883	1.895	1.905	1.9114	1.9375		1.885
		3A	1.9375	1.9294	1.905	1.9013	1.878		3B	1.883	1.8912	1.905	1.9098	1.9375		1.885
2	2-4.5 UNC	1A	1.9971	1.9641	1.8528	1.8385	1.7324		1B	1.759	1.795	1.8557	1.8743	2		1.8
		2A	1.9971	1.9751	1.8528	1.8433	1.7324		2B	1.759	1.795	1.8557	1.8681	2		1.8
		3A	2	1.978	1.8557	1.8486	1.7353		3B	1.759	1.7861	1.8557	1.865	2		1.8

	2-6 UN	2A	1.9974	1.9792	1.8891	1.8805	1.799		2B	1.82	1.85	1.8917	1.9028	2		1.89
		3A	2	1.9818	1.8917	1.8853	1.8016		3B	1.82	1.8396	1.8917	1.9	2		1.89
	2-8 UN	2A	1.9977	1.9827	1.9165	1.9087	1.8489		2B	1.865	1.89	1.9188	1.9289	2		1.89
		3A	2	1.985	1.9188	1.913	1.8512		3B	1.865	1.8797	1.9188	1.9264	2		1.89
	2-10 UNS	2A	1.998	1.9851	1.933	1.9265	1.879		2B	1.892	1.913	1.935	1.9435	2		1.89
	2-12 UN	2A	1.9982	1.9868	1.9441	1.938	1.899		2B	1.91	1.928	1.9459	1.9538	2		1.93
		3A	2	1.9886	1.9459	1.9414	1.9008		3B	1.91	1.9198	1.9459	1.9518	2		1.93
	2-14 UNS	2A	1.9983	1.988	1.9519	1.9462	1.9133		2B	1.923	1.938	1.9536	1.961	2		1.93
	2-16 UN	2A	1.9984	1.989	1.9578	1.9524	1.9239		2B	1.932	1.946	1.9594	1.9664	2		1.947
		3A	2	1.9906	1.9594	1.9554	1.9255		3B	1.932	1.9408	1.9594	1.9646	2		1.947
	2-18 UNS	2A	1.9985	1.9898	1.9624	1.9573	1.9324		2B	1.94	1.953	1.9639	1.9706	2		1.947
	2-20 UN	2A	1.9985	1.9904	1.966	1.9611	1.939		2B	1.946	1.957	1.9675	1.9739	2		1.958
		3A	2	1.9919	1.9675	1.9638	1.9405		3B	1.946	1.9537	1.9675	1.9723	2		1.958
2.0625	2 1/16-16 UNS	2A	2.0609	2.0515	2.0203	2.0149	1.9864		2B	1.995	2.009	2.0219	2.0289	2.0625		2.01
		3A	2.0625	2.0531	2.0219	2.0179	1.988		3B	1.995	2.0033	2.0219	2.0271	2.0625		2.01
2.125	2 1/8-6 UN	2A	2.1224	2.1042	2.0141	2.0054	1.924		2B	1.945	1.975	2.0167	2.028	2.125		2.015
		3A	2.125	2.1068	2.0167	2.0102	1.9266		3B	1.945	1.9646	2.0167	2.0251	2.125		2.015
	2 1/8-8 UN	2A	2.1226	2.1076	2.0414	2.0335	1.9738		2B	1.99	2.015	2.0438	2.054	2.125		2.015
		3A	2.125	2.11	2.0438	2.0379	1.9762		3B	1.99	2.0047	2.0438	2.0515	2.125		2.015
	2 1/8-12 UN	2A	2.1232	2.1118	2.0691	2.063	2.024		2B	2.035	2.053	2.0709	2.0788	2.125		2.055
		3A	2.125	2.1136	2.0709	2.0664	2.0258		3B	2.035	2.0448	2.0709	2.0768	2.125		2.055
	2 1/8-16 UN	2A	2.1234	2.114	2.0828	2.0774	2.0489		2B	2.057	2.071	2.0844	2.0914	2.125		2.07
		3A	2.125	2.1156	2.0844	2.0803	2.0505		3B	2.057	2.0658	2.0844	2.0896	2.125		2.07
	2 1/8-20 UN	2A	2.1235	2.1154	2.091	2.0861	2.064		2B	2.071	2.082	2.0925	2.0989	2.125		2.07
		3A	2.125	2.1169	2.0925	2.0888	2.0655		3B	2.071	2.0787	2.0925	2.0973	2.125		2.07
2.1875	2 3/16-16 UNS	2A	2.1859	2.1765	2.1453	2.1399	2.1114		2B	2.12	2.134	2.1469	2.1539	2.1875		2.135
		3A	2.1875	2.1781	2.1469	2.1428	2.113		3B	2.12	2.1283	2.1469	2.1521	2.1875		2.135
2.25	2 1/4-4.5 UNC	1A	2.2471	2.2141	2.1028	2.0882	1.9824		1B	2.009	2.045	2.1057	2.1247	2.25		2.045
		2A	2.2471	2.2251	2.1028	2.0931	1.9824		2B	2.009	2.045	2.1057	2.1183	2.25		2.045
		3A	2.25	2.228	2.1057	2.0984	1.9853		3B	2.009	2.0361	2.1057	2.1152	2.25		2.045
	2 1/4-6 UN	2A	2.2474	2.2292	2.1391	2.1303	2.049		2B	2.07	2.1	2.1417	2.1531	2.25		2.045
		3A	2.25	2.2318	2.1417	2.1351	2.0516		3B	2.07	2.0896	2.1417	2.1502	2.25		2.045
	2 1/4-8 UN	2A	2.2476	2.2326	2.1664	2.1584	2.0988		2B	2.115	2.14	2.1688	2.1792	2.25		2.14
		3A	2.25	2.235	2.1688	2.1628	2.1012		3B	2.115	2.1297	2.1688	2.1766	2.25		2.14
	2 1/4-10 UNS	2A	2.248	2.2351	2.183	2.1765	2.129		2B	2.142	2.163	2.185	2.1935	2.25		2.14
	2 1/4-12 UN	2A	2.2482	2.2368	2.1941	2.188	2.149		2B	2.16	2.178	2.1959	2.2038	2.25		2.178
		3A	2.25	2.2386	2.1959	2.1914	2.1508		3B	2.16	2.1698	2.1959	2.2018	2.25		2.178
	2 1/4-14 UNS	2A	2.2483	2.238	2.2019	2.1962	2.1633		2B	2.173	2.188	2.2036	2.211	2.25		2.178
	2 1/4-16 UN	2A	2.2484	2.239	2.2078	2.2024	2.1739		2B	2.182	2.196	2.2094	2.2164	2.25		2.197

		3A	2.25	2.2406	2.2094	2.2053	2.1755		3B	2.182	2.1908	2.2094	2.2146	2.25		2.197
	2 1/4-18 UNS	2A	2.2485	2.2398	2.2124	2.2073	2.1824		2B	2.19	2.203	2.2139	2.2206	2.25		2.197
	2 1/4-20 UN	2A	2.2485	2.2404	2.216	2.2111	2.189		2B	2.196	2.207	2.2175	2.2239	2.25		2.207
		3A	2.25	2.2419	2.2175	2.2137	2.1905		3B	2.196	2.2037	2.2175	2.2223	2.25		2.207
2.3125	2 5/16-16 UNS	2A	2.3108	2.3014	2.2702	2.2647	2.2363		2B	2.245	2.259	2.2719	2.2791	2.3125		2.26
		3A	2.3125	2.3031	2.2719	2.2678	2.238		3B	2.245	2.2533	2.2719	2.2773	2.3125		2.26
2.375	2 3/8-6 UN	2A	2.3723	2.3541	2.264	2.2551	2.1739		2B	2.195	2.226	2.2667	2.2782	2.375		2.3
		3A	2.375	2.3568	2.2667	2.2601	2.1766		3B	2.195	2.2146	2.2667	2.2753	2.375		2.3
	2 3/8-8 UN	2A	2.3726	2.3576	2.2914	2.2833	2.2238		2B	2.24	2.265	2.2938	2.3043	2.375		2.3
		3A	2.375	2.36	2.2938	2.2878	2.2262		3B	2.24	2.2547	2.2938	2.3017	2.375		2.3
	2 3/8-12 UN	2A	2.3731	2.3617	2.319	2.3128	2.2739		2B	2.285	2.303	2.3209	2.329	2.375		2.305
		3A	2.375	2.3636	2.3209	2.3163	2.2758		3B	2.285	2.2948	2.3209	2.3269	2.375		2.305
	2 3/8-16 UN	2A	2.3733	2.3639	2.3327	2.3272	2.2988		2B	2.307	2.321	2.3344	2.3416	2.375		2.32
		3A	2.375	2.3656	2.3344	2.3303	2.3005		3B	2.307	2.3158	2.3344	2.3398	2.375		2.32
	2 3/8-20 UN	2A	2.3735	2.3654	2.341	2.3359	2.314		2B	2.321	2.332	2.3425	2.3491	2.375		2.32
		3A	2.375	2.3669	2.3425	2.3387	2.3155		3B	2.321	2.3287	2.3425	2.3475	2.375		2.32
2.4375	2 7/16-16 UNS	2A	2.4358	2.4264	2.3952	2.3897	2.3613		2B	2.37	2.384	2.3969	2.4041	2.4375		2.385
		3A	2.4375	2.4281	2.3969	2.3928	2.363		3B	2.37	2.3783	2.3969	2.4023	2.4375		2.385
2.5	2 1/2-4 UNC	1A	2.4969	2.4612	2.3345	2.319	2.1992		1B	2.229	2.267	2.3376	2.3578	2.5		2.265
		2A	2.4969	2.4731	2.3345	2.3241	2.1992		2B	2.229	2.267	2.3376	2.3511	2.5		2.265
		3A	2.5	2.4762	2.3376	2.3298	2.2023		3B	2.229	2.2594	2.3376	2.3477	2.5		2.265
	2 1/2-6 UN	2A	2.4973	2.4791	2.389	2.38	2.2989		2B	2.32	2.35	2.3917	2.4033	2.5		2.265
		3A	2.5	2.4818	2.3917	2.385	2.3016		3B	2.32	2.3396	2.3917	2.4004	2.5		2.265
	2 1/2-8 UN	2A	2.4976	2.4826	2.4164	2.4082	2.3488		2B	2.365	2.39	2.4188	2.4294	2.5		2.39
		3A	2.5	2.485	2.4188	2.4127	2.3512		3B	2.365	2.3797	2.4188	2.4268	2.5		2.39
	2 1/2-10 UNS	2A	2.498	2.4851	2.433	2.4263	2.379		2B	2.392	2.413	2.435	2.4437	2.5		2.39
	2 1/2-12 UN	2A	2.4981	2.4867	2.444	2.4378	2.3989		2B	2.41	2.428	2.4459	2.454	2.5		2.43
		3A	2.5	2.4886	2.4459	2.4413	2.4008		3B	2.41	2.4198	2.4459	2.4519	2.5		2.43
	2 1/2-14 UNS	2A	2.4983	2.488	2.4519	2.4461	2.4133		2B	2.423	2.438	2.4536	2.4612	2.5		2.43
	2 1/2-16 UN	2A	2.4983	2.4889	2.4577	2.4522	2.4238		2B	2.432	2.446	2.4594	2.4666	2.5		2.447
		3A	2.5	2.4906	2.4594	2.4553	2.4255		3B	2.432	2.4408	2.4594	2.4648	2.5		2.447
	2 1/2-18 UNS	2A	2.4984	2.4897	2.4623	2.457	2.4323		2B	2.44	2.453	2.4639	2.4708	2.5		2.447
	2 1/2-20 UN	2A	2.4985	2.4904	2.466	2.4609	2.439		2B	2.446	2.457	2.4675	2.4741	2.5		2.5
		3A	2.5	2.4919	2.4675	2.4637	2.4405		3B	2.446	2.4537	2.4675	2.4725	2.5		2.5
2.625	2 5/8-6 UN	2A	2.6223	2.6041	2.514	2.505	2.4239		2B	2.445	2.475	2.5167	2.5285	2.625		2.5
		3A	2.625	2.6068	2.5167	2.5099	2.4266		3B	2.445	2.4646	2.5167	2.5255	2.625		2.5
	2 5/8-8 UN	2A	2.6225	2.6075	2.5413	2.5331	2.4737		2B	2.49	2.515	2.5438	2.5545	2.625		2.5
		3A	2.625	2.61	2.5438	2.5376	2.4762		3B	2.49	2.5047	2.5438	2.5518	2.625		2.5
	2 5/8-12 UN	2A	2.6231	2.6117	2.569	2.5628	2.5239		2B	2.535	2.553	2.5709	2.579	2.625		2.555

		3A	2.625	2.6136	2.5709	2.5663	2.5258		3B	2.535	2.5448	2.5709	2.5769	2.625		2.555
	2 5/8-16 UN	2A	2.6233	2.6139	2.5827	2.5772	2.5488		2B	2.557	2.571	2.5844	2.5916	2.625		2.571
		3A	2.625	2.6156	2.5844	2.5803	2.5505		3B	2.557	2.5658	2.5844	2.5898	2.625		2.571
	2 5/8-20 UN	2A	2.6235	2.6154	2.591	2.5859	2.564		2B	2.571	2.582	2.5925	2.5991	2.625		2.571
		3A	2.625	2.6169	2.5925	2.5887	2.5655		3B	2.571	2.5787	2.5925	2.5975	2.625		2.571
2.75	2 3/4-4 UNC	1A	2.7468	2.7111	2.5844	2.5686	2.4491		1B	2.479	2.517	2.5876	2.6082	2.75		2.515
		2A	2.7468	2.723	2.5844	2.5739	2.4491		2B	2.479	2.517	2.5876	2.6013	2.75		2.515
		3A	2.75	2.7262	2.5876	2.5797	2.4523		3B	2.479	2.5094	2.5876	2.5979	2.75		2.515
	2 3/4-6 UN	2A	2.7473	2.7291	2.639	2.6299	2.5489		2B	2.57	2.6	2.6417	2.6536	2.75		2.515
		3A	2.75	2.7318	2.6417	2.6349	2.5516		3B	2.57	2.5896	2.6417	2.6506	2.75		2.515
	2 3/4-8 UN	2A	2.7475	2.7325	2.6663	2.658	2.5987		2B	2.615	2.64	2.6688	2.6796	2.75		2.639
		3A	2.75	2.735	2.6688	2.6625	2.6012		3B	2.615	2.6297	2.6688	2.6769	2.75		2.639
	2 3/4-10 UNS	2A	2.748	2.7351	2.683	2.6763	2.629		2B	2.642	2.663	2.685	2.6937	2.75		2.639
	2 3/4-12 UN	2A	2.7481	2.7367	2.694	2.6878	2.6489		2B	2.66	2.678	2.6959	2.704	2.75		2.68
		3A	2.75	2.7386	2.6959	2.6913	2.6508		3B	2.66	2.6698	2.6959	2.7019	2.75		2.68
	2 3/4-14 UNS	2A	2.7483	2.738	2.7019	2.6961	2.6633		2B	2.673	2.688	2.7036	2.7112	2.75		2.68
	2 3/4-16 UN	2A	2.7483	2.7389	2.7077	2.7022	2.6738		2B	2.682	2.696	2.7094	2.7166	2.75		2.697
		3A	2.75	2.7406	2.7094	2.7053	2.6755		3B	2.682	2.6908	2.7094	2.7148	2.75		2.697
	2 3/4-18 UNS	2A	2.7484	2.7397	2.7123	2.707	2.6823		2B	2.69	2.703	2.7139	2.7208	2.75		2.697
	2 3/4-20 UN	2A	2.7485	2.7404	2.716	2.7109	2.689		2B	2.696	2.707	2.7175	2.7241	2.75		2.697
		3A	2.75	2.7419	2.7175	2.7137	2.6905		3B	2.696	2.7037	2.7175	2.7225	2.75		2.697
2.875	2 7/8-6 UN	2A	2.8722	2.854	2.7639	2.7547	2.6738		2B	2.695	2.725	2.7667	2.7787	2.875		2.8
		3A	2.875	2.8568	2.7667	2.7598	2.6766		3B	2.695	2.7146	2.7667	2.7757	2.875		2.8
	2 7/8-8 UN	2A	2.8725	2.8575	2.7913	2.7829	2.7237		2B	2.74	2.765	2.7938	2.8048	2.875		2.8
		3A	2.875	2.86	2.7938	2.7875	2.7262		3B	2.74	2.7547	2.7938	2.802	2.875		2.8
	2 7/8-12 UN	2A	2.8731	2.8617	2.819	2.8127	2.7739		2B	2.785	2.803	2.8209	2.8291	2.875		2.8
		3A	2.875	2.8636	2.8209	2.8162	2.7758		3B	2.785	2.7948	2.8209	2.8271	2.875		2.8
	2 7/8-16 UN	2A	2.8733	2.8639	2.8327	2.8271	2.7988		2B	2.807	2.821	2.8344	2.8417	2.875		2.821
		3A	2.875	2.8656	2.8344	2.8302	2.8005		3B	2.807	2.8158	2.8344	2.8399	2.875		2.821
	2 7/8-20 UN	2A	2.8734	2.8653	2.8409	2.8357	2.8139		2B	2.821	2.832	2.8425	2.8493	2.875		2.821
		3A	2.875	2.8669	2.8425	2.8386	2.8155		3B	2.821	2.8287	2.8425	2.8476	2.875		2.821
3	3-4 UNC	1A	2.9968	2.9611	2.8344	2.8183	2.6991		1B	2.729	2.767	2.8376	2.8585	3		2.765
		2A	2.9968	2.973	2.8344	2.8237	2.6991		2B	2.729	2.767	2.8376	2.8515	3		2.765
		3A	3	2.9762	2.8376	2.8296	2.7023		3B	2.729	2.7594	2.8376	2.848	3		2.765
	3-6 UN	2A	2.9972	2.979	2.8889	2.8796	2.7988		2B	2.82	2.85	2.8917	2.9038	3		2.765
		3A	3	2.9818	2.8917	2.8847	2.8016		3B	2.82	2.8396	2.8917	2.9008	3		2.765
	3-8 UN	2A	2.9974	2.9824	2.9162	2.9077	2.8486		2B	2.865	2.89	2.9188	2.9299	3		2.89
		3A	3	2.985	2.9188	2.9124	2.8512		3B	2.865	2.8797	2.9188	2.9271	3		2.89
	3-10 UNS	2A	2.998	2.9851	2.933	2.9262	2.879		2B	2.892	2.913	2.935	2.9439	3		2.89



	3-12 UN	2A	2.9981	2.9867	2.944	2.9377	2.8989		2B	2.91	2.928	2.9459	2.9541	3		2.93
		3A	3	2.9886	2.9459	2.9412	2.9008		3B	2.91	2.9198	2.9459	2.9521	3		2.93
	3-14 UNS	2A	2.9982	2.9879	2.9518	2.9459	2.9132		2B	2.923	2.938	2.9536	2.9613	3		2.93
	3-16 UN	2A	2.9983	2.9889	2.9577	2.9521	2.9238		2B	2.932	2.946	2.9594	2.9667	3		2.947
		3A	3	2.9906	2.9594	2.9552	2.9255		3B	2.932	2.9408	2.9594	2.9649	3		2.947
	3-18 UNS	2A	2.9984	2.9897	2.9623	2.9569	2.9323		2B	2.94	2.953	2.9639	2.9709	3		2.947
	3-20 UN	2A	2.9984	2.9903	2.9659	2.9607	2.9389		2B	2.946	2.957	2.9675	2.9743	3		2.947
		3A	3	2.9919	2.9675	2.9636	2.9405		3B	2.946	2.9537	2.9675	2.9726	3		2.947
3.125	3 1/8-6 UN	2A	3.1222	3.104	3.0139	3.0045	2.9238		2B	2.945	2.975	3.0167	3.0289	3.125		3.04
		3A	3.125	3.1068	3.0167	3.0097	2.9266		3B	2.945	2.9646	3.0167	3.0259	3.125		3.04
	3 1/8-8 UN	2A	3.1224	3.1074	3.0412	3.0326	2.9736		2B	2.99	3.015	3.0438	3.055	3.125		3.04
		3A	3.125	3.11	3.0438	3.0374	2.9762		3B	2.99	3.0047	3.0438	3.0522	3.125		3.04
	3 1/8-12 UN	2A	3.1231	3.1117	3.069	3.0627	3.0239		2B	3.035	3.053	3.0709	3.0791	3.125		3.05
		3A	3.125	3.1136	3.0709	3.0662	3.0258		3B	3.035	3.0448	3.0709	3.0771	3.125		3.05
	3 1/8-16 UN	2A	3.1233	3.1139	3.0827	3.0771	3.0488		2B	3.057	3.071	3.0844	3.0917	3.125		3.071
		3A	3.125	3.1156	3.0844	3.0802	3.0505		3B	3.057	3.0658	3.0844	3.0899	3.125		3.071
3.25	3 1/4-4 UNC	1A	3.2467	3.211	3.0843	3.068	2.949		1B	2.979	3.017	3.0876	3.1088	3.25		3.019
		2A	3.2467	3.2229	3.0843	3.0734	2.949		2B	2.979	3.017	3.0876	3.1017	3.25		3.019
		3A	3.25	3.2262	3.0876	3.0794	2.9523		3B	2.979	3.0094	3.0876	3.0982	3.25		3.019
	3 1/4-6 UN	2A	3.2472	3.229	3.1389	3.1294	3.0488		2B	3.07	3.1	3.1417	3.154	3.25		3.019
		3A	3.25	3.2318	3.1417	3.1346	3.0516		3B	3.07	3.0896	3.1417	3.1509	3.25		3.019
	3 1/4-8 UN	2A	3.2474	3.2324	3.1662	3.1575	3.0986		2B	3.115	3.14	3.1688	3.1801	3.25		3.14
		3A	3.25	3.235	3.1688	3.1623	3.1012		3B	3.115	3.1297	3.1688	3.1773	3.25		3.14
	3 1/4-10 UNS	2A	3.248	3.2351	3.183	3.1762	3.129		2B	3.142	3.163	3.185	3.1939	3.25		3.14
	3 1/4-12 UN	2A	3.2481	3.2367	3.194	3.1877	3.1489		2B	3.16	3.178	3.1959	3.2041	3.25		3.18
		3A	3.25	3.2386	3.1959	3.1912	3.1508		3B	3.16	3.1698	3.1959	3.2041	3.25		3.18
	3 1/4-14 UNS	2A	3.2482	3.2379	3.2018	3.1959	3.1632		2B	3.173	3.188	3.2036	3.2113	3.25		3.18
	3 1/4-16 UN	2A	3.2483	3.2389	3.2077	3.2021	3.1738		2B	3.182	3.196	3.2094	3.2167	3.25		3.197
		3A	3.25	3.2406	3.2094	3.2052	3.1755		3B	3.182	3.1908	3.2094	3.2149	3.25		3.197
	3 1/4-18 UNS	2A	3.2484	3.2397	3.2123	3.2069	3.1823		2B	3.19	3.203	3.2139	3.2209	3.25		3.197
3.375	3 3/8-6 UN	2A	3.3721	3.3539	3.2638	3.2543	3.1737		2B	3.195	3.225	3.2667	3.2791	3.375		3.3
		3A	3.375	3.3568	3.2667	3.2595	3.1766		3B	3.195	3.2146	3.2667	3.276	3.375		3.3
	3 3/8-8 UN	2A	3.3724	3.3574	3.2912	3.2824	3.2236		2B	3.24	3.265	3.2938	3.3052	3.375		3.3
		3A	3.375	3.36	3.2938	3.2872	3.2262		3B	3.24	3.2547	3.2938	3.3023	3.375		3.3
	3 3/8-12 UN	2A	3.3731	3.3617	3.319	3.3126	3.2739		2B	3.285	3.303	3.3209	3.3293	3.375		3.3
		3A	3.375	3.3636	3.3209	3.3161	3.2758		3B	3.285	3.2948	3.3209	3.3272	3.375		3.3
	3 3/8-16 UN	2A	3.3733	3.3639	3.3327	3.3269	3.2988		2B	3.307	3.321	3.3344	3.3419	3.375		3.32
		3A	3.375	3.3656	3.3344	3.3301	3.3005		3B	3.307	3.3158	3.3344	3.34	3.375		3.32
3.5	3 1/2-4 UNC	1A	3.4967	3.461	3.3343	3.3177	3.199		1B	3.229	3.267	3.3376	3.3591	3.5		3.267

		2A	3.4967	3.4729	3.3343	3.3233	3.199		2B	3.229	3.267	3.3376	3.3519	3.5		3.267
		3A	3.5	3.4762	3.3376	3.3293	3.2023		3B	3.229	3.2594	3.3376	3.3484	3.5		3.267
	3 1/2-6 UN	2A	3.4971	3.4789	3.3888	3.3792	3.2987		2B	3.32	3.35	3.3917	3.4042	3.5		3.267
		3A	3.5	3.4818	3.3917	3.3845	3.3016		3B	3.32	3.3396	3.3917	3.4011	3.5		3.267
	3 1/2-8 UN	2A	3.4974	3.4824	3.4162	3.4074	3.3486		2B	3.365	3.39	3.4188	3.4303	3.5		3.39
		3A	3.5	3.485	3.4188	3.4122	3.3512		3B	3.365	3.3797	3.4188	3.4274	3.5		3.39
	3 1/2-10 UNS	2A	3.4979	3.485	3.4329	3.426	3.3789		2B	3.392	3.413	3.435	3.444	3.5		3.39
	3 1/2-12 UN	2A	3.4981	3.4867	3.444	3.4376	3.3989		2B	3.41	3.428	3.4459	3.4543	3.5		3.43
		3A	3.5	3.4886	3.4459	3.4411	3.4008		3B	3.41	3.4198	3.4459	3.4522	3.5		3.43
	3 1/2-14 UNS	2A	3.4982	3.4879	3.4518	3.4457	3.4132		2B	3.423	3.438	3.4536	3.4615	3.5		3.43
	3 1/2-16 UN	2A	3.4983	3.4889	3.4577	3.4519	3.4238		2B	3.432	3.446	3.4594	3.4669	3.5		3.447
		3A	3.5	3.4906	3.4594	3.4551	3.4255		3B	3.432	3.4408	3.4594	3.465	3.5		3.447
	3 1/2-18 UNS	2A	3.4983	3.4896	3.4622	3.4567	3.4322		2B	3.44	3.453	3.4639	3.4711	3.5		3.447
3.625	3 5/8-6 UN	2A	3.6221	3.6039	3.5138	3.5041	3.4237		2B	3.445	3.475	3.5167	3.5293	3.625		3.5
		3A	3.625	3.6068	3.5167	3.5094	3.4266		3B	3.445	3.4646	3.5167	3.5262	3.625		3.5
	3 5/8-8 UN	2A	3.6223	3.6073	3.5411	3.5322	3.4735		2B	3.49	3.515	3.5438	3.5554	3.625		3.5
		3A	3.625	3.61	3.5438	3.5371	3.4762		3B	3.49	3.5047	3.5438	3.5525	3.625		3.5
	3 5/8-12 UN	2A	3.6231	3.6117	3.569	3.5626	3.5239		2B	3.535	3.553	3.5709	3.5793	3.625		3.55
		3A	3.625	3.6136	3.5709	3.5661	3.5258		3B	3.535	3.5448	3.5709	3.5772	3.625		3.55
	3 5/8-16 UN	2A	3.6233	3.6139	3.5827	3.5769	3.5488		2B	3.557	3.571	3.5844	3.5919	3.625		3.572
		3A	3.625	3.6156	3.5844	3.5801	3.5505		3B	3.557	3.5658	3.5844	3.59	3.625		3.572
3.75	3 3/4-4 UNC	1A	3.7466	3.7109	3.5842	3.5674	3.4489		1B	3.479	3.517	3.5876	3.6094	3.75		3.52
		2A	3.7466	3.7228	3.5842	3.573	3.4489		2B	3.479	3.517	3.5876	3.6021	3.75		3.52
		3A	3.75	3.7262	3.5876	3.5792	3.4523		3B	3.479	3.5094	3.5876	3.5985	3.75		3.52
	3 3/4-6 UN	2A	3.7471	3.7289	3.6388	3.629	3.5487		2B	3.57	3.6	3.6417	3.6544	3.75		3.52
		3A	3.75	3.7318	3.6417	3.6344	3.5516		3B	3.57	3.5896	3.6417	3.6512	3.75		3.52
	3 3/4-8 UN	2A	3.7473	3.7323	3.6661	3.6571	3.5985		2B	3.615	3.64	3.6688	3.6805	3.75		3.64
		3A	3.75	3.735	3.6688	3.6621	3.6012		3B	3.615	3.6297	3.6688	3.6776	3.75		3.64
	3 3/4-10 UNS	2A	3.7479	3.735	3.6829	3.676	3.6289		2B	3.642	3.663	3.685	3.694	3.75		3.64
	3 3/4-12 UN	2A	3.7481	3.7367	3.694	3.6876	3.6489		2B	3.66	3.678	3.6959	3.7043	3.75		3.68
		3A	3.75	3.7386	3.6959	3.6911	3.6508		3B	3.66	3.6698	3.6959	3.7022	3.75		3.68
	3 3/4-14 UNS	2A	3.7482	3.7379	3.7018	3.6957	3.6632		2B	3.673	3.688	3.7036	3.7115	3.75		3.68
	3 3/4-16 UN	2A	3.7483	3.7389	3.7077	3.7019	3.6738		2B	3.682	3.696	3.7094	3.7169	3.75		3.697
		3A	3.75	3.7406	3.7094	3.7051	3.6755		3B	3.682	3.6908	3.7094	3.715	3.75		3.697
	3 3/4-18 UNS	2A	3.7483	3.7396	3.7122	3.7067	3.6822		2B	3.69	3.703	3.7139	3.7211	3.75		3.697
3.875	3 7/8-6 UN	2A	3.872	3.8538	3.7637	3.7538	3.6736		2B	3.695	3.725	3.7667	3.7795	3.875		3.8
		3A	3.875	3.8568	3.7667	3.7593	3.6766		3B	3.695	3.7146	3.7667	3.7763	3.875		3.8
	3 7/8-8 UN	2A	3.8723	3.8573	3.7911	3.782	3.7235		2B	3.74	3.765	3.7938	3.8056	3.875		3.8
		3A	3.875	3.86	3.7938	3.787	3.7262		3B	3.74	3.7547	3.7938	3.8026	3.875		3.8

	3 7/8-12 UN	2A	3.873	3.8616	3.8189	3.8124	3.7738		2B	3.785	3.803	3.8209	3.8294	3.875		3.805
		3A	3.875	3.8636	3.8209	3.816	3.7758		3B	3.785	3.7948	3.8209	3.8273	3.875		3.805
	3 7/8-16 UN	2A	3.8732	3.8638	3.8326	3.8267	3.7987		2B	3.807	3.821	3.8344	3.842	3.875		3.821
		3A	3.875	3.8656	3.8344	3.83	3.8005		3B	3.807	3.8158	3.8344	3.8401	3.875		3.821
4	4-4 UNC	1A	3.9966	3.9609	3.8342	3.8172	3.6989		1B	3.729	3.767	3.8376	3.8597	4		3.77
		2A	3.9966	3.9728	3.8342	3.8229	3.6989		2B	3.729	3.767	3.8376	3.8523	4		3.77
		3A	4	3.9762	3.8376	3.8291	3.7023		3B	3.729	3.7594	3.8376	3.8487	4		3.77
	4-6 UN	2A	3.997	3.9788	3.8887	3.8788	3.7986		2B	3.82	3.85	3.8917	3.9046	4		3.77
		3A	4	3.9818	3.8917	3.8843	3.8016		3B	3.82	3.8396	3.8917	3.9014	4		3.77
	4-8 UN	2A	3.9973	3.9823	3.9161	3.907	3.8485		2B	3.865	3.89	3.9188	3.9307	4		3.89
		3A	4	3.985	3.9188	3.912	3.8512		3B	3.865	3.8797	3.9188	3.9277	4		3.89
	4-10 UNS	2A	3.9979	3.985	3.9329	3.9259	3.8768		2B	3.892	3.913	3.935	3.9441	4		3.89
	4-12 UN	2A	3.998	3.9866	3.9439	3.9374	3.8988		2B	3.91	3.928	3.9459	3.9544	4		3.93
		3A	4	3.9886	3.9459	3.941	3.9008		3B	3.91	3.9198	3.9459	3.9523	4		3.93
	4-14 UNS	2A	3.9982	3.9879	3.9518	3.9456	3.9132		2B	3.923	3.938	3.9536	3.9616	4		3.947
	4-16 UN	2A	3.9982	3.9888	3.9576	3.9517	3.9237		2B	3.932	3.946	3.9594	3.967	4		3.947
		3A	4	3.9906	3.9594	3.955	3.9255		3B	3.932	3.9408	3.9594	3.9651	4		3.947

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