

inch

| Size<br>尺寸 | Thread<br>Designation<br>螺紋規<br>格名稱 | Internal 螺紋 |        |           |        |           |        |           |
|------------|-------------------------------------|-------------|--------|-----------|--------|-----------|--------|-----------|
|            |                                     | Minor Dia   |        | Pitch Dia |        | Major Dia |        | Tap Drill |
|            |                                     | Class       | Min    | Max       | Min    | Max       | Min    | Max       |
| 0.0118     | 30-318 UNM                          | 2B          | 0.0085 | 0.0100    | 0.0098 | 0.0103    | 0.0120 | 0.0083    |
| 0.0138     | 35-282 UNM                          | 2B          | 0.0101 | 0.0117    | 0.0115 | 0.0121    | 0.0140 | 0.0096    |
| 0.0157     | 40-254 UNM                          | 2B          | 0.0117 | 0.0134    | 0.0132 | 0.0138    | 0.0160 | 0.0110    |
| 0.0177     | 45-254 UNM                          | 2B          | 0.0136 | 0.0154    | 0.0152 | 0.0158    | 0.0180 | 0.0124    |
| 0.0197     | 50-203 UNM                          | 2B          | 0.0146 | 0.0166    | 0.0165 | 0.0172    | 0.0200 | 0.0138    |
| 0.021      | 0000-160 NS                         | 2B          | 0.0169 | 0.0181    | 0.0169 | 0.0181    | 0.021  |           |
| 0.0217     | 55-203 UNM                          | 2B          | 0.0165 | 0.0186    | 0.0185 | 0.0192    | 0.0220 | 0.0150    |
| 0.0236     | 60-169 UNM                          | 2B          | 0.0175 | 0.0198    | 0.0198 | 0.0206    | 0.0241 | 0.0165    |
| 0.0276     | 70-145 UNM                          | 2B          | 0.0204 | 0.0231    | 0.0231 | 0.0239    | 0.0281 | 0.0197    |
| 0.0315     | 80-127 UNM                          | 2B          | 0.0233 | 0.0263    | 0.0264 | 0.0273    | 0.0320 | 0.0220    |
| 0.034      | 000-120 NS                          | 2B          | 0.0286 | 0.03      | 0.0286 | 0.03      | 0.034  |           |
| 0.0354     | 90-113 UNM                          | 2B          | 0.0262 | 0.0295    | 0.0297 | 0.0307    | 0.0361 | 0.0248    |
| 0.0394     | 100-102 UNM                         | 2B          | 0.0291 | 0.0328    | 0.0330 | 0.0341    | 0.0401 | 0.0276    |
| 0.0433     | 110-102 UNM                         | 2B          | 0.0331 | 0.0367    | 0.0369 | 0.0380    | 0.0440 | 0.0315    |
| 0.047      | 00-90 NS                            | 2B          | 0.0398 | 0.0414    | 0.0398 | 0.0414    | 0.047  |           |
|            | 00-96 NS                            | 2B          | 0.0402 | 0.0418    | 0.0402 | 0.0418    | 0.047  |           |
| 0.0472     | 120-102 UNM                         | 2B          | 0.0370 | 0.0406    | 0.0409 | 0.0420    | 0.0480 | 0.0354    |
| 0.0551     | 140-85 UNM                          | 2B          | 0.0428 | 0.0471    | 0.0474 | 0.0487    | 0.0560 | 0.0386    |
| 0.06       | 0-80 UNF                            | 2B          | 0.0465 | 0.0514    | 0.0519 | 0.0542    | 0.06   | 0.05      |
|            |                                     | 3B          | 0.0465 | 0.0514    | 0.0519 | 0.0536    | 0.06   | 0.05      |
|            | 0-72 UNF                            | 2B          | 0.045  | 0.0505    | 0.051  | 0.0535    | 0.06   | 0.05      |
|            |                                     | 3B          | 0.045  | 0.0505    | 0.051  | 0.0529    | 0.06   | 0.05      |
| 0.073      | 1-64 UNC                            | 2B          | 0.0561 | 0.0623    | 0.0629 | 0.0655    | 0.073  | 0.06      |
|            |                                     | 3B          | 0.0561 | 0.0623    | 0.0629 | 0.0648    | 0.073  | 0.06      |
|            | 1-72 UNF                            | 2B          | 0.058  | 0.0635    | 0.064  | 0.0665    | 0.073  | 0.062     |
|            |                                     | 3B          | 0.058  | 0.0635    | 0.064  | 0.0659    | 0.073  | 0.062     |
| 0.086      | 2-56 UNC                            | 2B          | 0.0667 | 0.0737    | 0.0744 | 0.0772    | 0.086  | 0.072     |
|            |                                     | 3B          | 0.0667 | 0.0737    | 0.0744 | 0.0765    | 0.086  | 0.072     |
|            | 2-64 UNF                            | 2B          | 0.0691 | 0.0753    | 0.0759 | 0.0786    | 0.086  | 0.073     |
|            |                                     | 3B          | 0.0691 | 0.0753    | 0.0759 | 0.0779    | 0.086  | 0.073     |
| 0.099      | 3-48 UNC                            | 2B          | 0.0764 | 0.0845    | 0.0855 | 0.0885    | 0.099  | 0.082     |
|            |                                     | 3B          | 0.0764 | 0.0845    | 0.0855 | 0.0877    | 0.099  | 0.082     |
|            | 3-56 UNF                            | 2B          | 0.0797 | 0.0865    | 0.0874 | 0.0902    | 0.099  | 0.084     |
|            |                                     | 3B          | 0.0797 | 0.0865    | 0.0874 | 0.0895    | 0.099  | 0.084     |
| 0.112      | 4-40 UNC                            | 2B          | 0.0849 | 0.0939    | 0.0958 | 0.0991    | 0.112  | 0.092     |
|            |                                     | 3B          | 0.0849 | 0.0939    | 0.0958 | 0.0982    | 0.112  | 0.092     |
|            | 4-48 UNF                            | 2B          | 0.0894 | 0.0968    | 0.0985 | 0.1016    | 0.112  | 0.096     |
|            |                                     | 3B          | 0.0894 | 0.0968    | 0.0985 | 0.1008    | 0.112  | 0.096     |
| 0.125      | 5-40 UNC                            | 2B          | 0.0979 | 0.1062    | 0.1088 | 0.1121    | 0.125  | 0.105     |
|            |                                     | 3B          | 0.0979 | 0.1062    | 0.1088 | 0.1113    | 0.125  | 0.105     |
|            | 5-44 UNF                            | 2B          | 0.1004 | 0.1079    | 0.1102 | 0.1134    | 0.125  | 0.108     |
|            |                                     | 3B          | 0.1004 | 0.1079    | 0.1102 | 0.1126    | 0.125  | 0.108     |
| 0.138      | 6-32 UNC                            | 2B          | 0.104  | 0.114     | 0.1177 | 0.1214    | 0.138  | 0.115     |
|            |                                     | 3B          | 0.104  | 0.114     | 0.1177 | 0.1204    | 0.138  | 0.115     |
|            | 6-40 UNF                            | 2B          | 0.111  | 0.119     | 0.1218 | 0.1252    | 0.138  | 0.119     |
|            |                                     | 3B          | 0.111  | 0.1186    | 0.1218 | 0.1243    | 0.138  | 0.119     |
| 0.164      | 8-32 UNC                            | 2B          | 0.13   | 0.139     | 0.1437 | 0.1475    | 0.164  | 0.139     |
|            |                                     | 3B          | 0.13   | 0.1389    | 0.1437 | 0.1465    | 0.164  | 0.139     |
|            | 8-36 UNF                            | 2B          | 0.134  | 0.142     | 0.146  | 0.1496    | 0.164  | 0.142     |
|            |                                     | 3B          | 0.134  | 0.1416    | 0.146  | 0.1487    | 0.164  | 0.142     |
| 0.19       | 10-24 UNC                           | 2B          | 0.145  | 0.156     | 0.1629 | 0.1672    | 0.19   | 0.155     |

|        |              |    |       |        |        |        |        |  |       |
|--------|--------------|----|-------|--------|--------|--------|--------|--|-------|
|        |              | 3B | 0.145 | 0.1555 | 0.1629 | 0.1661 | 0.19   |  | 0.155 |
|        | 10-28 UNS    | 2B | 0.151 | 0.16   | 0.1668 | 0.1711 | 0.19   |  | 0.155 |
|        | 10-32 UNF    | 2B | 0.156 | 0.164  | 0.1697 | 0.1736 | 0.19   |  | 0.164 |
|        |              | 3B | 0.156 | 0.1641 | 0.1697 | 0.1726 | 0.19   |  | 0.164 |
|        | 10-36 UNS    | 2B | 0.16  | 0.166  | 0.172  | 0.1759 | 0.19   |  | 0.164 |
|        | 10-40 UNS    | 2B | 0.163 | 0.169  | 0.1738 | 0.1775 | 0.19   |  | 0.164 |
|        | 10-48 UNS    | 2B | 0.167 | 0.172  | 0.1765 | 0.1799 | 0.19   |  | 0.164 |
|        | 10-56 UNS    | 2B | 0.171 | 0.175  | 0.1784 | 0.1816 | 0.19   |  | 0.164 |
| 0.216  | 12-24 UNC    | 2B | 0.171 | 0.181  | 0.1889 | 0.1933 | 0.216  |  | 0.181 |
|        |              | 3B | 0.171 | 0.1807 | 0.1889 | 0.1922 | 0.216  |  | 0.181 |
|        | 12-28 UNF    | 2B | 0.177 | 0.186  | 0.1928 | 0.197  | 0.216  |  | 0.186 |
|        |              | 3B | 0.177 | 0.1857 | 0.1928 | 0.1959 | 0.216  |  | 0.186 |
|        | 12-32 UNEF   | 2B | 0.182 | 0.19   | 0.1957 | 0.1998 | 0.216  |  | 0.19  |
|        |              | 3B | 0.182 | 0.1895 | 0.1957 | 0.1988 | 0.216  |  | 0.19  |
|        | 12-36 UNS    | 2B | 0.186 | 0.192  | 0.198  | 0.2019 | 0.216  |  | 0.19  |
|        | 12-40 UNS    | 2B | 0.189 | 0.195  | 0.1998 | 0.2035 | 0.216  |  | 0.19  |
|        | 12-48 UNS    | 2B | 0.193 | 0.198  | 0.2025 | 0.2059 | 0.216  |  | 0.19  |
|        | 12-56 UNS    | 2B | 0.197 | 0.201  | 0.2044 | 0.2076 | 0.216  |  | 0.19  |
| 0.25   | 1/4-20 UNC   | 1B | 0.196 | 0.207  | 0.2175 | 0.2248 | 0.25   |  | 0.207 |
|        |              | 2B | 0.196 | 0.207  | 0.2175 | 0.2224 | 0.25   |  | 0.207 |
|        |              | 3B | 0.196 | 0.2067 | 0.2175 | 0.2211 | 0.25   |  | 0.207 |
|        | 1/4-24 UNS   | 2B | 0.205 | 0.215  | 0.2229 | 0.2277 | 0.25   |  | 0.207 |
|        | 1/4-27 UNS   | 2B | 0.21  | 0.219  | 0.2259 | 0.2304 | 0.25   |  | 0.207 |
|        | 1/4-28 UNF   | 1B | 0.211 | 0.22   | 0.2268 | 0.2333 | 0.25   |  | 0.22  |
|        |              | 2B | 0.211 | 0.22   | 0.2268 | 0.2311 | 0.25   |  | 0.22  |
|        |              | 3B | 0.211 | 0.219  | 0.2268 | 0.23   | 0.25   |  | 0.22  |
|        | 1/4-32 UNEF  | 2B | 0.216 | 0.224  | 0.2297 | 0.2339 | 0.25   |  | 0.224 |
|        |              | 3B | 0.216 | 0.2229 | 0.2297 | 0.2328 | 0.25   |  | 0.224 |
|        | 1/4-36 UNS   | 2B | 0.22  | 0.226  | 0.232  | 0.236  | 0.25   |  | 0.226 |
|        | 1/4-40 UNS   | 2B | 0.223 | 0.229  | 0.2338 | 0.2376 | 0.25   |  | 0.226 |
|        | 1/4-48 UNS   | 2B | 0.227 | 0.232  | 0.2365 | 0.2401 | 0.25   |  | 0.226 |
|        | 1/4-56 UNS   | 2B | 0.231 | 0.235  | 0.2384 | 0.2417 | 0.25   |  | 0.226 |
| 0.3125 | 5/16-18 UNC  | 1B | 0.252 | 0.265  | 0.2764 | 0.2843 | 0.3125 |  | 0.266 |
|        |              | 2B | 0.252 | 0.265  | 0.2764 | 0.2817 | 0.3125 |  | 0.265 |
|        |              | 3B | 0.252 | 0.263  | 0.2764 | 0.2803 | 0.3125 |  | 0.265 |
|        | 5/16-20 UN   | 2B | 0.258 | 0.27   | 0.28   | 0.2852 | 0.3125 |  | 0.265 |
|        |              | 3B | 0.258 | 0.268  | 0.28   | 0.2839 | 0.3125 |  | 0.265 |
|        | 5/16-24 UNF  | 1B | 0.267 | 0.277  | 0.2854 | 0.2925 | 0.3125 |  | 0.277 |
|        |              | 2B | 0.267 | 0.277  | 0.2854 | 0.2902 | 0.3125 |  | 0.277 |
|        |              | 3B | 0.267 | 0.2754 | 0.2854 | 0.289  | 0.3125 |  | 0.277 |
|        | 5/16-27 UNS  | 2B | 0.272 | 0.281  | 0.2884 | 0.2929 | 0.3125 |  | 0.277 |
|        | 5/16-28 UN   | 2B | 0.274 | 0.282  | 0.2893 | 0.2937 | 0.3125 |  | 0.277 |
|        |              | 3B | 0.274 | 0.2807 | 0.2893 | 0.2926 | 0.3125 |  | 0.277 |
|        | 5/16-32 UNEF | 2B | 0.279 | 0.286  | 0.2922 | 0.2964 | 0.3125 |  | 0.287 |
|        |              | 3B | 0.279 | 0.2847 | 0.2922 | 0.2953 | 0.3125 |  | 0.287 |
|        | 5/16-36 UNS  | 2B | 0.282 | 0.289  | 0.2945 | 0.2985 | 0.3125 |  | 0.289 |
|        | 5/16-40 UNS  | 2B | 0.285 | 0.291  | 0.2963 | 0.3001 | 0.3125 |  | 0.289 |
|        | 5/16-48 UNS  | 2B | 0.29  | 0.295  | 0.299  | 0.3026 | 0.3125 |  | 0.289 |
| 0.375  | 3/8-16 UNC   | 1B | 0.307 | 0.321  | 0.3344 | 0.3429 | 0.375  |  | 0.32  |
|        |              | 2B | 0.307 | 0.321  | 0.3344 | 0.3401 | 0.375  |  | 0.32  |
|        |              | 3B | 0.307 | 0.3182 | 0.3344 | 0.3387 | 0.375  |  | 0.32  |
|        | 3/8-18 UNS   | 2B | 0.315 | 0.328  | 0.3389 | 0.3445 | 0.375  |  | 0.32  |
|        | 3/8-20 UN    | 2B | 0.321 | 0.332  | 0.3425 | 0.3479 | 0.375  |  | 0.32  |
|        |              | 3B | 0.321 | 0.3297 | 0.3425 | 0.3465 | 0.375  |  | 0.32  |
|        | 3/8-24 UNF   | 1B | 0.33  | 0.34   | 0.3479 | 0.3553 | 0.375  |  | 0.34  |
|        |              | 2B | 0.33  | 0.34   | 0.3479 | 0.3528 | 0.375  |  | 0.34  |

|        |              |    |       |        |        |        |        |  |       |
|--------|--------------|----|-------|--------|--------|--------|--------|--|-------|
|        | 3/8-24 UNF   | 3B | 0.33  | 0.3372 | 0.3479 | 0.3516 | 0.375  |  | 0.34  |
|        | 3/8-27 UNS   | 2B | 0.335 | 0.344  | 0.3509 | 0.3556 | 0.375  |  | 0.34  |
|        | 3/8-28 UN    | 2B | 0.336 | 0.345  | 0.3518 | 0.3564 | 0.375  |  | 0.34  |
|        |              | 3B | 0.336 | 0.3426 | 0.3518 | 0.3553 | 0.375  |  | 0.34  |
|        | 3/8-32 UNEF  | 2B | 0.341 | 0.349  | 0.3547 | 0.3591 | 0.375  |  | 0.349 |
|        |              | 3B | 0.341 | 0.3469 | 0.3547 | 0.358  | 0.375  |  | 0.349 |
|        | 3/8-36 UNS   | 2B | 0.345 | 0.352  | 0.357  | 0.3612 | 0.375  |  | 0.351 |
|        | 3/8-40 UNS   | 2B | 0.348 | 0.354  | 0.3588 | 0.3628 | 0.375  |  | 0.351 |
| 0.39   | 0.390-27 UNS | 2B | 0.35  | 0.359  | 0.3659 | 0.3706 | 0.39   |  | 0.36  |
| 0.4375 | 7/16-14 UNC  | 1B | 0.36  | 0.376  | 0.3911 | 0.4003 | 0.4375 |  | 0.378 |
|        |              | 2B | 0.36  | 0.376  | 0.3911 | 0.3972 | 0.4375 |  | 0.378 |
|        |              | 3B | 0.36  | 0.3717 | 0.3911 | 0.3957 | 0.4375 |  | 0.378 |
|        | 7/16-16 UN   | 2B | 0.37  | 0.384  | 0.3969 | 0.4028 | 0.4375 |  | 0.378 |
|        |              | 3B | 0.37  | 0.38   | 0.3969 | 0.4014 | 0.4375 |  | 0.378 |
|        | 7/16-18 UNS  | 2B | 0.377 | 0.39   | 0.4014 | 0.407  | 0.4375 |  | 0.378 |
|        | 7/16-20 UNF  | 1B | 0.383 | 0.395  | 0.405  | 0.4131 | 0.4375 |  | 0.395 |
|        |              | 2B | 0.383 | 0.395  | 0.405  | 0.4104 | 0.4375 |  | 0.395 |
|        |              | 3B | 0.383 | 0.3916 | 0.405  | 0.4091 | 0.4375 |  | 0.395 |
|        | 7/16-24 UNS  | 2B | 0.392 | 0.402  | 0.4104 | 0.4153 | 0.4375 |  | 0.395 |
|        | 7/16-27 UNS  | 2B | 0.397 | 0.406  | 0.4134 | 0.4181 | 0.4375 |  | 0.395 |
|        | 7/16-28 UNEF | 2B | 0.399 | 0.407  | 0.4143 | 0.4189 | 0.4375 |  | 0.408 |
|        |              | 3B | 0.399 | 0.4051 | 0.4143 | 0.4178 | 0.4375 |  | 0.408 |
|        | 7/16-32 UN   | 2B | 0.404 | 0.411  | 0.4172 | 0.4216 | 0.4375 |  | 0.408 |
|        |              | 3B | 0.404 | 0.4094 | 0.4172 | 0.4205 | 0.4375 |  | 0.408 |
| 0.5    | 1/2-12 UNS   | 2B | 0.41  | 0.428  | 0.4459 | 0.4529 | 0.5    |  | 0.428 |
|        |              | 3B | 0.41  | 0.4223 | 0.4459 | 0.4511 | 0.5    |  | 0.428 |
|        | 1/2-13 UNC   | 1B | 0.417 | 0.434  | 0.45   | 0.4597 | 0.5    |  | 0.428 |
|        |              | 2B | 0.417 | 0.434  | 0.45   | 0.4565 | 0.5    |  | 0.428 |
|        |              | 3B | 0.417 | 0.4284 | 0.45   | 0.4548 | 0.5    |  | 0.428 |
|        | 1/2-14 UNS   | 2B | 0.423 | 0.438  | 0.4536 | 0.4601 | 0.5    |  | 0.428 |
|        | 1/2-16 UN    | 2B | 0.432 | 0.446  | 0.4594 | 0.4655 | 0.5    |  | 0.428 |
|        |              | 3B | 0.432 | 0.4419 | 0.4594 | 0.464  | 0.5    |  | 0.428 |
|        | 1/2-18 UNS   | 2B | 0.44  | 0.453  | 0.4639 | 0.4697 | 0.5    |  | 0.428 |
|        | 1/2-20 UNF   | 1B | 0.446 | 0.457  | 0.4675 | 0.4759 | 0.5    |  | 0.458 |
|        |              | 2B | 0.446 | 0.457  | 0.4675 | 0.4731 | 0.5    |  | 0.458 |
|        |              | 3B | 0.446 | 0.4537 | 0.4675 | 0.4717 | 0.5    |  | 0.458 |
|        | 1/2-24 UNS   | 2B | 0.455 | 0.465  | 0.4729 | 0.478  | 0.5    |  | 0.458 |
|        | 1/2-27 UNS   | 2B | 0.46  | 0.469  | 0.4759 | 0.4807 | 0.5    |  | 0.458 |
|        | 1/2-28 UNEF  | 2B | 0.461 | 0.47   | 0.4768 | 0.4816 | 0.5    |  | 0.47  |
|        |              | 3B | 0.461 | 0.4676 | 0.4768 | 0.4804 | 0.5    |  | 0.47  |
|        | 1/2-32 UN    | 2B | 0.466 | 0.474  | 0.4797 | 0.4842 | 0.5    |  | 0.47  |
|        |              | 3B | 0.466 | 0.4719 | 0.4797 | 0.4831 | 0.5    |  | 0.47  |
| 0.5625 | 9/16-12 UNC  | 1B | 0.472 | 0.49   | 0.5084 | 0.5186 | 0.5625 |  | 0.49  |
|        |              | 2B | 0.472 | 0.49   | 0.5084 | 0.5152 | 0.5625 |  | 0.49  |
|        |              | 3B | 0.472 | 0.4843 | 0.5084 | 0.5135 | 0.5625 |  | 0.49  |
|        | 9/16-14 UNS  | 2B | 0.485 | 0.501  | 0.5161 | 0.5226 | 0.5625 |  | 0.49  |
|        | 9/16-16 UN   | 2B | 0.495 | 0.509  | 0.5219 | 0.528  | 0.5625 |  | 0.49  |
|        |              | 3B | 0.495 | 0.504  | 0.5219 | 0.5265 | 0.5625 |  | 0.49  |
|        | 9/16-18 UNF  | 1B | 0.502 | 0.515  | 0.5264 | 0.5353 | 0.5625 |  | 0.515 |
|        |              | 2B | 0.502 | 0.515  | 0.5264 | 0.5323 | 0.5625 |  | 0.515 |
|        |              | 3B | 0.502 | 0.5106 | 0.5264 | 0.5308 | 0.5625 |  | 0.515 |
|        | 9/16-20 UN   | 2B | 0.508 | 0.52   | 0.53   | 0.5355 | 0.5625 |  | 0.515 |
|        |              | 3B | 0.508 | 0.5162 | 0.53   | 0.5341 | 0.5625 |  | 0.515 |
|        | 9/16-24 UNEF | 2B | 0.517 | 0.527  | 0.5354 | 0.5405 | 0.5625 |  | 0.527 |
|        |              | 3B | 0.517 | 0.5244 | 0.5354 | 0.5392 | 0.5625 |  | 0.527 |
|        | 9/16-27 UNS  | 2B | 0.522 | 0.531  | 0.5384 | 0.5432 | 0.5625 |  | 0.527 |

|        |               |    |        |        |        |        |        |  |       |
|--------|---------------|----|--------|--------|--------|--------|--------|--|-------|
|        | 9/16-28 UN    | 2B | 0.524  | 0.532  | 0.5393 | 0.5441 | 0.5625 |  | 0.533 |
|        |               | 3B | 0.524  | 0.5301 | 0.5393 | 0.5429 | 0.5625 |  | 0.533 |
|        | 9/16-32 UN    | 2B | 0.529  | 0.536  | 0.5422 | 0.5467 | 0.5625 |  | 0.533 |
|        |               | 3B | 0.529  | 0.5344 | 0.5422 | 0.5456 | 0.5625 |  | 0.533 |
| 0.625  | 5/8-11 UNC    | 1B | 0.527  | 0.546  | 0.566  | 0.5767 | 0.625  |  | 0.546 |
|        |               | 2B | 0.527  | 0.546  | 0.566  | 0.5732 | 0.625  |  | 0.546 |
|        |               | 3B | 0.527  | 0.5391 | 0.566  | 0.5714 | 0.625  |  | 0.546 |
|        | 5/8-12 UN     | 2B | 0.535  | 0.553  | 0.5709 | 0.578  | 0.625  |  | 0.553 |
|        |               | 3B | 0.535  | 0.5463 | 0.5709 | 0.5762 | 0.625  |  | 0.553 |
|        | 5/8-14 UNS    | 2B | 0.548  | 0.564  | 0.5786 | 0.5852 | 0.625  |  | 0.553 |
|        | 5/8-16 UN     | 2B | 0.557  | 0.571  | 0.5844 | 0.5906 | 0.625  |  | 0.553 |
|        |               | 3B | 0.557  | 0.5662 | 0.5844 | 0.589  | 0.625  |  | 0.553 |
|        | 5/8-18 UNF    | 1B | 0.565  | 0.578  | 0.5889 | 0.598  | 0.625  |  | 0.579 |
|        |               | 2B | 0.565  | 0.578  | 0.5889 | 0.5949 | 0.625  |  | 0.579 |
|        |               | 3B | 0.565  | 0.573  | 0.5889 | 0.5934 | 0.625  |  | 0.579 |
|        | 5/8-20 UN     | 2B | 0.571  | 0.582  | 0.5925 | 0.5981 | 0.625  |  | 0.579 |
|        |               | 3B | 0.571  | 0.5787 | 0.5925 | 0.5967 | 0.625  |  | 0.579 |
|        | 5/8-24 UNEF   | 2B | 0.58   | 0.59   | 0.5979 | 0.6031 | 0.625  |  | 0.59  |
|        |               | 3B | 0.58   | 0.5869 | 0.5979 | 0.6018 | 0.625  |  | 0.59  |
|        | 5/8-27 UNS    | 2B | 0.585  | 0.594  | 0.6009 | 0.6059 | 0.625  |  | 0.59  |
|        | 5/8-28 UN     | 2B | 0.586  | 0.595  | 0.6018 | 0.6067 | 0.625  |  | 0.595 |
|        |               | 3B | 0.586  | 0.5926 | 0.6018 | 0.6055 | 0.625  |  | 0.595 |
|        | 5/8-32 UN     | 2B | 0.591  | 0.599  | 0.6047 | 0.6093 | 0.625  |  | 0.595 |
|        |               | 3B | 0.591  | 0.5969 | 0.6047 | 0.6082 | 0.625  |  | 0.595 |
| 0.6875 | 11/16-12 UN   | 2B | 0.597  | 0.615  | 0.6334 | 0.6405 | 0.6875 |  | 0.616 |
|        |               | 3B | 0.597  | 0.6085 | 0.6334 | 0.6387 | 0.6875 |  | 0.616 |
|        | 11/16-16 UN   | 2B | 0.62   | 0.634  | 0.6469 | 0.6531 | 0.6875 |  | 0.616 |
|        |               | 3B | 0.62   | 0.6284 | 0.6469 | 0.6515 | 0.6875 |  | 0.616 |
|        | 11/16-20 UN   | 2B | 0.633  | 0.645  | 0.655  | 0.6606 | 0.6875 |  | 0.616 |
|        |               | 3B | 0.633  | 0.6412 | 0.655  | 0.6592 | 0.6875 |  | 0.616 |
|        | 11/16-24 UNEF | 2B | 0.642  | 0.652  | 0.6604 | 0.6656 | 0.6875 |  | 0.652 |
|        |               | 3B | 0.642  | 0.6494 | 0.6604 | 0.6643 | 0.6875 |  | 0.652 |
|        | 11/16-28 UN   | 2B | 0.649  | 0.657  | 0.6643 | 0.6692 | 0.6875 |  | 0.652 |
|        |               | 3B | 0.649  | 0.6551 | 0.6643 | 0.668  | 0.6875 |  | 0.652 |
|        | 11/16-32 UN   | 2B | 0.654  | 0.661  | 0.6672 | 0.6718 | 0.6875 |  | 0.652 |
|        |               | 3B | 0.654  | 0.6594 | 0.6672 | 0.6707 | 0.6875 |  | 0.652 |
| 0.75   | 3/4-10 UNC    | 1B | 0.642  | 0.663  | 0.685  | 0.6965 | 0.75   |  | 0.663 |
|        |               | 2B | 0.642  | 0.663  | 0.685  | 0.6927 | 0.75   |  | 0.663 |
|        |               | 3B | 0.642  | 0.6545 | 0.685  | 0.6907 | 0.75   |  | 0.663 |
|        | 3/4-12 UN     | 2B | 0.66   | 0.678  | 0.6959 | 0.7031 | 0.75   |  | 0.68  |
|        |               | 3B | 0.66   | 0.6707 | 0.6959 | 0.7013 | 0.75   |  | 0.68  |
|        | 3/4-14 UNS    | 2B | 0.673  | 0.688  | 0.7036 | 0.7103 | 0.75   |  | 0.68  |
|        | 3/4-16 UNF    | 1B | 0.682  | 0.696  | 0.7094 | 0.7192 | 0.75   |  | 0.697 |
|        |               | 2B | 0.682  | 0.696  | 0.7094 | 0.7159 | 0.75   |  | 0.697 |
|        |               | 3B | 0.682  | 0.6908 | 0.7094 | 0.7143 | 0.75   |  | 0.697 |
|        | 3/4-18 UNS    | 2B | 0.69   | 0.703  | 0.7139 | 0.7199 | 0.75   |  | 0.697 |
|        | 3/4-20 UNEF   | 2B | 0.696  | 0.707  | 0.7175 | 0.7232 | 0.75   |  | 0.707 |
|        |               | 3B | 0.696  | 0.7037 | 0.7175 | 0.7218 | 0.75   |  | 0.707 |
| 0.75   | 3/4-24 UNS    | 2B | 0.705  | 0.715  | 0.7229 | 0.7282 | 0.75   |  | 0.707 |
|        | 3/4-24 UNS    | 2B | 0.71   | 0.719  | 0.7259 | 0.731  | 0.75   |  | 0.707 |
|        | 3/4-28 UN     | 2B | 0.711  | 0.72   | 0.7268 | 0.7318 | 0.75   |  | 0.72  |
|        |               | 3B | 0.711  | 0.7176 | 0.7268 | 0.7305 | 0.75   |  | 0.72  |
|        | 3/4-32 UN     | 2B | 0.716  | 0.724  | 0.7297 | 0.7344 | 0.75   |  | 0.72  |
|        |               | 3B | 0.716  | 0.7219 | 0.7297 | 0.7333 | 0.75   |  | 0.72  |
| 0.8125 | 13/16-10 UNC  | 2B | 0.7045 | 0.7255 | 0.7475 | 0.759  | 0.8125 |  | 0.74  |
|        |               | 3B | 0.7045 | 0.7255 | 0.7475 | 0.7552 | 0.8125 |  | 0.74  |

|        |               |    |        |        |        |        |        |  |       |
|--------|---------------|----|--------|--------|--------|--------|--------|--|-------|
|        | 13/16-12 UN   | 2B | 0.722  | 0.74   | 0.7584 | 0.7656 | 0.8125 |  | 0.74  |
|        |               | 3B | 0.722  | 0.7329 | 0.7584 | 0.7638 | 0.8125 |  | 0.74  |
|        | 13/16-16 UN   | 2B | 0.745  | 0.759  | 0.7719 | 0.7782 | 0.8125 |  | 0.759 |
|        |               | 3B | 0.745  | 0.7533 | 0.7719 | 0.7766 | 0.8125 |  | 0.759 |
|        | 13/16-20 UNEF | 2B | 0.758  | 0.77   | 0.78   | 0.7857 | 0.8125 |  | 0.769 |
|        |               | 3B | 0.758  | 0.7662 | 0.78   | 0.7843 | 0.8125 |  | 0.796 |
|        | 13/16-28 UN   | 2B | 0.774  | 0.782  | 0.7893 | 0.7943 | 0.8125 |  | 0.796 |
|        |               | 3B | 0.774  | 0.7801 | 0.7893 | 0.793  | 0.8125 |  | 0.796 |
|        | 13/16-32 UN   | 2B | 0.779  | 0.786  | 0.7922 | 0.7969 | 0.8125 |  | 0.796 |
|        |               | 3B | 0.779  | 0.7844 | 0.7922 | 0.7958 | 0.8125 |  | 0.796 |
| 0.875  | 7/8-9 UNC     | 1B | 0.755  | 0.778  | 0.8028 | 0.8151 | 0.875  |  | 0.78  |
|        |               | 2B | 0.755  | 0.778  | 0.8028 | 0.811  | 0.875  |  | 0.78  |
|        |               | 3B | 0.755  | 0.7681 | 0.8028 | 0.8089 | 0.875  |  | 0.78  |
|        | 7/8-10 UNS    | 2B | 0.767  | 0.788  | 0.81   | 0.8178 | 0.875  |  | 0.78  |
|        | 7/8-12 UN     | 2B | 0.785  | 0.803  | 0.8209 | 0.8281 | 0.875  |  | 0.805 |
|        |               | 3B | 0.785  | 0.7948 | 0.8209 | 0.8263 | 0.875  |  | 0.805 |
|        | 7/8-14 UNF    | 1B | 0.798  | 0.814  | 0.8286 | 0.8392 | 0.875  |  | 0.814 |
|        |               | 2B | 0.798  | 0.814  | 0.8286 | 0.8356 | 0.875  |  | 0.814 |
|        |               | 3B | 0.798  | 0.8068 | 0.8286 | 0.8339 | 0.875  |  | 0.814 |
|        | 7/8-16 UN     | 2B | 0.807  | 0.821  | 0.8344 | 0.8407 | 0.875  |  | 0.821 |
|        |               | 3B | 0.807  | 0.8158 | 0.8344 | 0.8391 | 0.875  |  | 0.821 |
|        | 7/8-18 UNS    | 2B | 0.815  | 0.828  | 0.8389 | 0.8449 | 0.875  |  | 0.821 |
|        | 7/8-20 UNEF   | 2B | 0.821  | 0.832  | 0.8425 | 0.8482 | 0.875  |  | 0.833 |
|        |               | 3B | 0.821  | 0.8287 | 0.8425 | 0.8468 | 0.875  |  | 0.833 |
|        | 7/8-24 UNS    | 2B | 0.83   | 0.84   | 0.8479 | 0.8532 | 0.875  |  | 0.833 |
|        | 7/8-27 UNS    | 2B | 0.835  | 0.844  | 0.8509 | 0.856  | 0.875  |  | 0.833 |
|        | 7/8-28 UN     | 2B | 0.836  | 0.845  | 0.8518 | 0.8568 | 0.875  |  | 0.845 |
|        |               | 3B | 0.836  | 0.8426 | 0.8518 | 0.8555 | 0.875  |  | 0.845 |
|        | 7/8-32 UN     | 2B | 0.841  | 0.849  | 0.8547 | 0.8594 | 0.875  |  | 0.845 |
|        |               | 3B | 0.841  | 0.8469 | 0.8547 | 0.8583 | 0.875  |  | 0.845 |
| 0.9375 | 15/16-9 UNC   | 2B | 0.8175 | 0.8405 | 0.8653 | 0.8735 | 0.9375 |  | 0.865 |
|        |               | 3B | 0.8175 | 0.8306 | 0.8653 | 0.8714 | 0.9375 |  | 0.865 |
|        | 15/16-12 UN   | 2B | 0.847  | 0.865  | 0.8834 | 0.8908 | 0.9375 |  | 0.865 |
|        |               | 3B | 0.847  | 0.8575 | 0.8834 | 0.8889 | 0.9375 |  | 0.865 |
|        | 15/16-16 UN   | 2B | 0.87   | 0.884  | 0.8969 | 0.9034 | 0.9375 |  | 0.885 |
|        |               | 3B | 0.87   | 0.8783 | 0.8969 | 0.9018 | 0.9375 |  | 0.885 |
|        | 15/16-20 UNEF | 2B | 0.883  | 0.895  | 0.905  | 0.9109 | 0.9375 |  | 0.895 |
|        |               | 3B | 0.883  | 0.8912 | 0.905  | 0.9094 | 0.9375 |  | 0.895 |
|        | 15/16-28 UN   | 2B | 0.899  | 0.907  | 0.9143 | 0.9195 | 0.9375 |  | 0.895 |
|        |               | 3B | 0.899  | 0.9051 | 0.9143 | 0.9182 | 0.9375 |  | 0.895 |
|        | 15/16-32 UN   | 2B | 0.904  | 0.911  | 0.9172 | 0.9221 | 0.9375 |  | 0.895 |
|        |               | 3B | 0.904  | 0.9094 | 0.9172 | 0.9209 | 0.9375 |  | 0.895 |
| 1      | 1-8 UNC       | 1B | 0.865  | 0.89   | 0.9188 | 0.932  | 1      |  | 0.89  |
|        |               | 2B | 0.865  | 0.89   | 0.9188 | 0.9276 | 1      |  | 0.89  |
|        |               | 3B | 0.865  | 0.8797 | 0.9188 | 0.9254 | 1      |  | 0.89  |
|        | 1-10 UNS      | 2B | 0.892  | 0.913  | 0.935  | 0.943  | 1      |  | 0.93  |
|        | 1-12 UNF      | 1B | 0.91   | 0.928  | 0.9459 | 0.9573 | 1      |  | 0.93  |
|        |               | 2B | 0.91   | 0.928  | 0.9459 | 0.9535 | 1      |  | 0.93  |
|        |               | 3B | 0.91   | 0.9198 | 0.9459 | 0.9516 | 1      |  | 0.93  |
|        | 1-14 UNS      | 1B | 0.923  | 0.938  | 0.9536 | 0.9645 | 1      |  | 0.938 |
|        |               | 2B | 0.923  | 0.938  | 0.9536 | 0.9609 | 1      |  | 0.938 |
|        |               | 3B | 0.923  | 0.9315 | 0.9536 | 0.959  | 1      |  | 0.938 |
|        | 1-16 UN       | 2B | 0.932  | 0.946  | 0.9594 | 0.9659 | 1      |  | 0.947 |
|        |               | 3B | 0.932  | 0.9408 | 0.9594 | 0.9643 | 1      |  | 0.947 |
|        | 1-18 UNS      | 2B | 0.94   | 0.953  | 0.9639 | 0.9701 | 1      |  | 0.947 |
|        | 1-20 UNEF     | 2B | 0.946  | 0.957  | 0.9675 | 0.9734 | 1      |  | 0.947 |

|        |                |    |        |        |        |        |        |  |       |
|--------|----------------|----|--------|--------|--------|--------|--------|--|-------|
|        |                | 3B | 0.946  | 0.9537 | 0.9675 | 0.9719 | 1      |  | 0.947 |
|        | 1-24 UNS       | 2B | 0.955  | 0.965  | 0.9729 | 0.9784 | 1      |  | 0.947 |
|        | 1-27 UNS       | 2B | 0.96   | 0.969  | 0.9759 | 0.9811 | 1      |  | 0.947 |
|        | 1-28 UN        | 2B | 0.961  | 0.97   | 0.9768 | 0.982  | 1      |  | 0.97  |
|        |                | 3B | 0.961  | 0.9676 | 0.9768 | 0.9807 | 1      |  | 0.97  |
|        | 1-32 UN        | 2B | 0.966  | 0.974  | 0.9797 | 0.9846 | 1      |  | 0.97  |
|        |                | 3B | 0.966  | 0.9719 | 0.9797 | 0.9834 | 1      |  | 0.97  |
| 1.0625 | 1 1/16-8 UN    | 2B | 0.927  | 0.952  | 0.9813 | 0.9902 | 1.0625 |  | 0.99  |
|        |                | 3B | 0.927  | 0.9422 | 0.9813 | 0.988  | 1.0625 |  | 0.99  |
|        | 1 1/16-8 UNC   | 2B | 0.9115 | 0.9365 | 0.9658 | 0.9747 | 1.0625 |  | 0.99  |
|        | 1 1/16-12 UNC  | 2B | 0.972  | 0.99   | 1.0084 | 1.0158 | 1.0625 |  | 0.99  |
|        |                | 3B | 0.972  | 0.9823 | 1.0084 | 1.0139 | 1.0625 |  | 0.99  |
|        | 1 1/16-16 UNC  | 2B | 0.995  | 1.009  | 1.0219 | 1.0284 | 1.0625 |  | 1.059 |
|        |                | 3B | 0.995  | 1.0033 | 1.0219 | 1.0268 | 1.0625 |  | 1.059 |
|        | 1 1/16-18 UNEF | 2B | 1.002  | 1.015  | 1.0264 | 1.0326 | 1.0625 |  | 1.015 |
|        |                | 3B | 1.002  | 1.0105 | 1.0264 | 1.031  | 1.0625 |  | 1.015 |
|        | 1 1/16-20 UN   | 2B | 1.008  | 1.02   | 1.03   | 1.0359 | 1.0625 |  | 1.015 |
|        |                | 3B | 1.008  | 1.0162 | 1.03   | 1.0344 | 1.0625 |  | 1.015 |
|        | 1 1/16-28 UN   | 2B | 1.024  | 1.032  | 1.0393 | 1.0445 | 1.0625 |  | 1.015 |
|        |                | 3B | 1.024  | 1.0301 | 1.0393 | 1.0432 | 1.0625 |  | 1.015 |
| 1.125  | 1 1/8-7 UNC    | 1B | 0.97   | 0.998  | 1.0322 | 1.0463 | 1.125  |  | 1     |
|        |                | 2B | 0.97   | 0.998  | 1.0322 | 1.0416 | 1.125  |  | 1     |
|        |                | 3B | 0.97   | 0.9875 | 1.0322 | 1.0393 | 1.125  |  | 1     |
|        | 1 1/8-8 UN     | 2B | 0.99   | 1.015  | 1.0438 | 1.0528 | 1.125  |  | 1.015 |
|        |                | 3B | 0.99   | 1.0047 | 1.0438 | 1.0505 | 1.125  |  | 1.015 |
|        | 1 1/8-8 UNC    | 2B | 0.9690 | 0.9940 | 1.0228 | 1.0318 | 1.1250 |  | 1.015 |
|        | 1 1/8-10 UNS   | 2B | 1.017  | 1.038  | 1.06   | 1.068  | 1.125  |  | 1.015 |
|        | 1 1/8-12 UNF   | 1B | 1.035  | 1.053  | 1.0709 | 1.0826 | 1.125  |  | 1.055 |
|        |                | 2B | 1.035  | 1.053  | 1.0709 | 1.0787 | 1.125  |  | 1.055 |
|        |                | 3B | 1.035  | 1.0448 | 1.0709 | 1.0768 | 1.125  |  | 1.055 |
|        | 1 1/8-14 UNS   | 2B | 1.048  | 1.064  | 1.0786 | 1.0855 | 1.125  |  | 1.055 |
|        | 1 1/8-16 UN    | 2B | 1.057  | 1.071  | 1.0844 | 1.0909 | 1.125  |  | 1.07  |
|        |                | 3B | 1.057  | 1.0658 | 1.0844 | 1.0893 | 1.125  |  | 1.07  |
|        | 1 1/8-18 UNEF  | 2B | 1.065  | 1.078  | 1.0889 | 1.0951 | 1.125  |  | 1.078 |
|        |                | 3B | 1.065  | 1.073  | 1.0889 | 1.0935 | 1.125  |  | 1.078 |
|        | 1 1/8-20 UN    | 2B | 1.071  | 1.082  | 1.0925 | 1.0984 | 1.125  |  | 1.082 |
|        |                | 3B | 1.071  | 1.0787 | 1.0925 | 1.0969 | 1.125  |  | 1.082 |
|        | 1 1/8-24 UNS   | 2B | 1.08   | 1.09   | 1.0979 | 1.1034 | 1.125  |  | 1.082 |
|        | 1 1/8-28 UN    | 2B | 1.086  | 1.095  | 1.1018 | 1.107  | 1.125  |  | 1.095 |
|        |                | 3B | 1.086  | 1.0926 | 1.1018 | 1.1057 | 1.125  |  | 1.095 |
| 1.1875 | 1 3/16-8 UN    | 2B | 1.052  | 1.077  | 1.1063 | 1.1154 | 1.1875 |  | 1.115 |
|        |                | 3B | 1.052  | 1.0672 | 1.1063 | 1.1131 | 1.1875 |  | 1.115 |
|        | 1 3/16-12 UN   | 2B | 1.097  | 1.115  | 1.1334 | 1.1409 | 1.1875 |  | 1.115 |
|        |                | 3B | 1.097  | 1.1073 | 1.1334 | 1.139  | 1.1875 |  | 1.115 |
|        | 1 3/16-16 UN   | 2B | 1.12   | 1.134  | 1.1469 | 1.1535 | 1.1875 |  | 1.135 |
|        |                | 3B | 1.12   | 1.1283 | 1.1469 | 1.1519 | 1.1875 |  | 1.135 |
|        | 1 3/16-18 UNEF | 2B | 1.127  | 1.14   | 1.1514 | 1.1577 | 1.1875 |  | 1.14  |
|        |                | 3B | 1.127  | 1.1355 | 1.1514 | 1.1561 | 1.1875 |  | 1.14  |
|        | 1 3/16-20 UN   | 2B | 1.133  | 1.145  | 1.155  | 1.1611 | 1.1875 |  | 1.14  |
|        |                | 3B | 1.133  | 1.1412 | 1.155  | 1.1595 | 1.1875 |  | 1.14  |
|        | 1 3/16-28 UN   | 2B | 1.149  | 1.157  | 1.1643 | 1.1696 | 1.1875 |  | 1.14  |
|        |                | 3B | 1.149  | 1.1551 | 1.1643 | 1.1683 | 1.1875 |  | 1.14  |
| 1.25   | 1 1/4-7 UNC    | 1B | 1.095  | 1.123  | 1.1572 | 1.1716 | 1.25   |  | 1.125 |
|        |                | 2B | 1.095  | 1.123  | 1.1572 | 1.1668 | 1.25   |  | 1.125 |
|        |                | 3B | 1.095  | 1.1125 | 1.1572 | 1.1644 | 1.25   |  | 1.125 |
|        | 1 1/4-8 UN     | 2B | 1.115  | 1.14   | 1.1688 | 1.178  | 1.25   |  | 1.14  |

|        |                |    |        |        |        |        |        |  |       |
|--------|----------------|----|--------|--------|--------|--------|--------|--|-------|
|        |                | 3B | 1.115  | 1.1297 | 1.1688 | 1.1757 | 1.25   |  | 1.14  |
|        | 1 1/4-8 UNC    | 2B | 1.0648 | 1.0898 | 1.1186 | 1.1278 | 1.2500 |  | 1.14  |
|        | 1 1/4-10 UNS   | 2B | 1.142  | 1.163  | 1.185  | 1.1932 | 1.25   |  | 1.14  |
|        | 1 1/4-12 UNF   | 1B | 1.16   | 1.178  | 1.1959 | 1.2079 | 1.25   |  | 1.18  |
|        |                | 2B | 1.16   | 1.178  | 1.1959 | 1.2039 | 1.25   |  | 1.18  |
|        |                | 3B | 1.16   | 1.1698 | 1.1959 | 1.2019 | 1.25   |  | 1.18  |
|        | 1 1/4-14 UNS   | 2B | 1.173  | 1.188  | 1.2036 | 1.2106 | 1.25   |  | 1.18  |
|        | 1 1/4-16 UN    | 2B | 1.182  | 1.196  | 1.2094 | 1.216  | 1.25   |  | 1.197 |
|        |                | 3B | 1.182  | 1.1908 | 1.2094 | 1.2144 | 1.25   |  | 1.197 |
|        | 1 1/4-18 UNEF  | 2B | 1.19   | 1.203  | 1.2139 | 1.2202 | 1.25   |  | 1.203 |
|        |                | 3B | 1.19   | 1.198  | 1.2139 | 1.2186 | 1.25   |  | 1.203 |
|        | 1 1/4-20 UN    | 2B | 1.196  | 1.207  | 1.2175 | 1.2236 | 1.25   |  | 1.207 |
|        |                | 3B | 1.196  | 1.2037 | 1.2175 | 1.222  | 1.25   |  | 1.207 |
|        | 1 1/4-24 UNS   | 2B | 1.205  | 1.215  | 1.2229 | 1.2285 | 1.25   |  | 1.207 |
|        | 1 1/4-28 UN    | 2B | 1.211  | 1.22   | 1.2268 | 1.2321 | 1.25   |  | 1.207 |
|        |                | 3B | 1.211  | 1.2176 | 1.2268 | 1.2308 | 1.25   |  | 1.207 |
| 1.3125 | 1 5/16-8 UN    | 2B | 1.177  | 1.202  | 1.2313 | 1.2405 | 1.3125 |  | 1.24  |
|        |                | 3B | 1.177  | 1.1922 | 1.2313 | 1.2382 | 1.3125 |  | 1.24  |
|        | 1 5/16-12 UN   | 2B | 1.222  | 1.24   | 1.2584 | 1.2659 | 1.3125 |  | 1.24  |
|        |                | 3B | 1.222  | 1.2323 | 1.2584 | 1.264  | 1.3125 |  | 1.24  |
|        | 1 5/16-16 UN   | 2B | 1.245  | 1.259  | 1.2719 | 1.2785 | 1.3125 |  | 1.26  |
|        |                | 3B | 1.245  | 1.2533 | 1.2719 | 1.2769 | 1.3125 |  | 1.26  |
|        | 1 5/16-18 UNEF | 2B | 1.252  | 1.265  | 1.2764 | 1.2827 | 1.3125 |  | 1.265 |
|        |                | 3B | 1.252  | 1.2605 | 1.2764 | 1.2811 | 1.3125 |  | 1.265 |
|        | 1 5/16-20 UN   | 2B | 1.258  | 1.27   | 1.28   | 1.2861 | 1.3125 |  | 1.265 |
|        |                | 3B | 1.258  | 1.2662 | 1.28   | 1.2845 | 1.3125 |  | 1.265 |
|        | 1 5/16-28 UN   | 2B | 1.274  | 1.282  | 1.2893 | 1.2946 | 1.3125 |  | 1.265 |
|        |                | 3B | 1.274  | 1.2801 | 1.2893 | 1.2933 | 1.3125 |  | 1.265 |
| 1.375  | 1 3/8-6 UNC    | 1B | 1.195  | 1.225  | 1.2667 | 1.2822 | 1.375  |  | 1.23  |
|        |                | 2B | 1.195  | 1.225  | 1.2667 | 1.2771 | 1.375  |  | 1.23  |
|        |                | 3B | 1.195  | 1.2146 | 1.2667 | 1.2745 | 1.375  |  | 1.23  |
|        | 1 3/8-8 UN     | 2B | 1.24   | 1.265  | 1.2938 | 1.3031 | 1.375  |  | 1.265 |
|        |                | 3B | 1.24   | 1.2547 | 1.2938 | 1.3008 | 1.375  |  | 1.265 |
|        | 1 3/8-10 UNS   | 2B | 1.267  | 1.288  | 1.31   | 1.3182 | 1.375  |  | 1.265 |
|        | 1 3/8-12 UNF   | 1B | 1.285  | 1.303  | 1.3209 | 1.3332 | 1.375  |  | 1.305 |
|        |                | 2B | 1.285  | 1.303  | 1.3209 | 1.3291 | 1.375  |  | 1.305 |
|        |                | 3B | 1.285  | 1.2948 | 1.3209 | 1.327  | 1.375  |  | 1.305 |
|        | 1 3/8-14 UNS   | 2B | 1.298  | 1.314  | 1.3286 | 1.3356 | 1.375  |  | 1.305 |
|        | 1 3/8-16 UN    | 2B | 1.307  | 1.321  | 1.3344 | 1.341  | 1.375  |  | 1.321 |
|        |                | 3B | 1.307  | 1.3158 | 1.3344 | 1.3394 | 1.375  |  | 1.321 |
|        | 1 3/8-18 UNEF  | 2B | 1.315  | 1.328  | 1.3389 | 1.3452 | 1.375  |  | 1.327 |
|        |                | 3B | 1.315  | 1.323  | 1.3389 | 1.3436 | 1.375  |  | 1.327 |
|        | 1 3/8-20 UN    | 2B | 1.321  | 1.332  | 1.3425 | 1.3486 | 1.375  |  | 1.327 |
|        |                | 3B | 1.321  | 1.3287 | 1.3425 | 1.347  | 1.375  |  | 1.327 |
|        | 1 3/8-24 UNS   | 2B | 1.33   | 1.34   | 1.3479 | 1.3535 | 1.375  |  | 1.327 |
|        | 1 3/8-28 UN    | 2B | 1.336  | 1.345  | 1.3518 | 1.3571 | 1.375  |  | 1.327 |
|        |                | 3B | 1.336  | 1.3426 | 1.3518 | 1.3558 | 1.375  |  | 1.327 |
| 1.4375 | 1 7/16-6 UN    | 2B | 1.257  | 1.288  | 1.3292 | 1.3396 | 1.4375 |  | 1.365 |
|        |                | 3B | 1.257  | 1.2771 | 1.3292 | 1.337  | 1.4375 |  | 1.365 |
|        | 1 7/16-8 UN    | 2B | 1.302  | 1.327  | 1.3563 | 1.3657 | 1.4375 |  | 1.365 |
|        |                | 3B | 1.302  | 1.3172 | 1.3563 | 1.3634 | 1.4375 |  | 1.365 |
|        | 1 7/16-12 UN   | 2B | 1.347  | 1.365  | 1.3834 | 1.391  | 1.4375 |  | 1.365 |
|        |                | 3B | 1.347  | 1.3573 | 1.3834 | 1.3891 | 1.4375 |  | 1.365 |
|        | 1 7/16-16 UN   | 2B | 1.37   | 1.384  | 1.3969 | 1.4037 | 1.4375 |  | 1.385 |
|        |                | 3B | 1.37   | 1.3783 | 1.3969 | 1.402  | 1.4375 |  | 1.385 |
|        | 1 7/16-18 UNEF | 2B | 1.377  | 1.39   | 1.4014 | 1.4079 | 1.4375 |  | 1.39  |

|        |                |    |       |        |        |        |        |  |       |
|--------|----------------|----|-------|--------|--------|--------|--------|--|-------|
|        |                | 3B | 1.377 | 1.3855 | 1.4014 | 1.4062 | 1.4375 |  | 1.39  |
|        | 1 7/16-20 UN   | 2B | 1.383 | 1.395  | 1.405  | 1.4112 | 1.4375 |  | 1.39  |
|        |                | 3B | 1.383 | 1.3912 | 1.405  | 1.4096 | 1.4375 |  | 1.39  |
|        | 1 7/16-28 UN   | 2B | 1.399 | 1.407  | 1.4143 | 1.4198 | 1.4375 |  | 1.39  |
|        |                | 3B | 1.399 | 1.4051 | 1.4143 | 1.4184 | 1.4375 |  | 1.39  |
| 1.5    | 1 1/2-6 UNC    | 1B | 1.32  | 1.35   | 1.3917 | 1.4075 | 1.5    |  | 1.355 |
|        |                | 2B | 1.32  | 1.35   | 1.3917 | 1.4022 | 1.5    |  | 1.355 |
|        |                | 3B | 1.32  | 1.3396 | 1.3917 | 1.3996 | 1.5    |  | 1.355 |
|        | 1 1/2-8 UN     | 2B | 1.365 | 1.39   | 1.4188 | 1.4283 | 1.5    |  | 1.39  |
|        |                | 3B | 1.365 | 1.3797 | 1.4188 | 1.4259 | 1.5    |  | 1.39  |
|        | 1 1/2-10 UNS   | 2B | 1.392 | 1.413  | 1.435  | 1.4433 | 1.5    |  | 1.39  |
|        | 1 1/2-12 UNF   | 1B | 1.41  | 1.428  | 1.4459 | 1.4584 | 1.5    |  | 1.43  |
|        |                | 2B | 1.41  | 1.428  | 1.4459 | 1.4542 | 1.5    |  | 1.43  |
|        |                | 3B | 1.41  | 1.4198 | 1.4459 | 1.4522 | 1.5    |  | 1.43  |
|        | 1 1/2-14 UNS   | 2B | 1.423 | 1.438  | 1.4536 | 1.4608 | 1.5    |  | 1.43  |
|        | 1 1/2-16 UN    | 2B | 1.432 | 1.446  | 1.4594 | 1.4662 | 1.5    |  | 1.447 |
|        |                | 3B | 1.432 | 1.4408 | 1.4594 | 1.4645 | 1.5    |  | 1.447 |
|        | 1 1/2-18 UNEF  | 2B | 1.44  | 1.452  | 1.4639 | 1.4704 | 1.5    |  | 1.453 |
|        |                | 3B | 1.44  | 1.448  | 1.4639 | 1.4687 | 1.5    |  | 1.453 |
|        | 1 1/2-20 UN    | 2B | 1.446 | 1.457  | 1.4675 | 1.4737 | 1.5    |  | 1.457 |
|        |                | 3B | 1.446 | 1.4537 | 1.4675 | 1.4721 | 1.5    |  | 1.457 |
|        | 1 1/2-24 UNS   | 2B | 1.455 | 1.465  | 1.4729 | 1.4787 | 1.5    |  | 1.457 |
|        | 1 1/2-28 UN    | 2B | 1.461 | 1.47   | 1.4768 | 1.4823 | 1.5    |  | 1.457 |
|        |                | 3B | 1.461 | 1.4676 | 1.4768 | 1.4809 | 1.5    |  | 1.457 |
|        | 1 9/16-6 UN    | 2B | 1.382 | 1.413  | 1.4542 | 1.4648 | 1.5625 |  | 1.5   |
|        |                | 3B | 1.382 | 1.4021 | 1.4542 | 1.4622 | 1.5625 |  | 1.5   |
| 1.5625 | 1 9/16-8 UN    | 2B | 1.427 | 1.452  | 1.4813 | 1.4909 | 1.5625 |  | 1.5   |
|        |                | 3B | 1.427 | 1.4422 | 1.4813 | 1.4885 | 1.5625 |  | 1.5   |
|        | 1 9/16-12 UN   | 2B | 1.472 | 1.49   | 1.5084 | 1.516  | 1.5625 |  | 1.5   |
|        |                | 3B | 1.472 | 1.4823 | 1.5084 | 1.5141 | 1.5625 |  | 1.5   |
|        | 1 9/16-16 UN   | 2B | 1.495 | 1.509  | 1.5219 | 1.5287 | 1.5625 |  | 1.509 |
|        |                | 3B | 1.495 | 1.5033 | 1.5219 | 1.527  | 1.5625 |  | 1.509 |
|        | 1 9/16-18 UNEF | 2B | 1.502 | 1.515  | 1.5264 | 1.5329 | 1.5625 |  | 1.515 |
|        |                | 3B | 1.502 | 1.5105 | 1.5264 | 1.5312 | 1.5625 |  | 1.515 |
|        | 1 9/16-20 UN   | 2B | 1.508 | 1.52   | 1.53   | 1.5362 | 1.5625 |  | 1.515 |
|        |                | 3B | 1.508 | 1.5162 | 1.53   | 1.5346 | 1.5625 |  | 1.515 |
| 1.625  | 1 5/8-6 UN     | 2B | 1.445 | 1.475  | 1.5167 | 1.5274 | 1.625  |  | 1.51  |
|        |                | 3B | 1.445 | 1.4646 | 1.5167 | 1.5247 | 1.625  |  | 1.51  |
|        | 1 5/8-8 UN     | 2B | 1.49  | 1.515  | 1.5438 | 1.5535 | 1.625  |  | 1.515 |
|        |                | 3B | 1.49  | 1.5047 | 1.5438 | 1.551  | 1.625  |  | 1.515 |
|        | 1 5/8-10 UNS   | 2B | 1.517 | 1.538  | 1.56   | 1.5683 | 1.625  |  | 1.515 |
|        | 1 5/8-12 UN    | 2B | 1.535 | 1.553  | 1.5709 | 1.5785 | 1.625  |  | 1.554 |
|        |                | 3B | 1.535 | 1.5448 | 1.5709 | 1.5766 | 1.625  |  | 1.554 |
|        | 1 5/8-14 UNS   | 2B | 1.548 | 1.564  | 1.5786 | 1.5858 | 1.625  |  | 1.554 |
|        | 1 5/8-16 UN    | 2B | 1.557 | 1.571  | 1.5844 | 1.5912 | 1.625  |  | 1.57  |
|        |                | 3B | 1.557 | 1.5658 | 1.5844 | 1.5895 | 1.625  |  | 1.57  |
|        | 1 5/8-18 UNEF  | 2B | 1.565 | 1.578  | 1.5889 | 1.5954 | 1.625  |  | 1.579 |
|        |                | 3B | 1.565 | 1.573  | 1.5889 | 1.5937 | 1.625  |  | 1.579 |
|        | 1 5/8-20 UN    | 2B | 1.571 | 1.582  | 1.5925 | 1.5987 | 1.625  |  | 1.579 |
|        |                | 3B | 1.571 | 1.5787 | 1.5925 | 1.5971 | 1.625  |  | 1.579 |
|        | 1 5/8-24 UNS   | 2B | 1.58  | 1.59   | 1.5979 | 1.6037 | 1.625  |  | 1.579 |
| 1.6875 | 1 11/16-6 UN   | 2B | 1.507 | 1.538  | 1.5792 | 1.59   | 1.6875 |  | 1.63  |
|        |                | 3B | 1.507 | 1.5271 | 1.5792 | 1.5873 | 1.6875 |  | 1.63  |
|        | 1 11/16-8 UN   | 2B | 1.552 | 1.577  | 1.6063 | 1.616  | 1.6875 |  | 1.63  |
|        |                | 3B | 1.552 | 1.5672 | 1.6063 | 1.6136 | 1.6875 |  | 1.63  |
|        | 1 11/16-12 UN  | 2B | 1.597 | 1.615  | 1.6334 | 1.6412 | 1.6875 |  | 1.63  |

|        |                 |    |       |        |        |        |        |  |       |
|--------|-----------------|----|-------|--------|--------|--------|--------|--|-------|
|        |                 | 3B | 1.597 | 1.6073 | 1.6334 | 1.6392 | 1.6875 |  | 1.63  |
|        | 1 11/16-16 UN   | 2B | 1.62  | 1.634  | 1.6469 | 1.6538 | 1.6875 |  | 1.635 |
|        |                 | 3B | 1.62  | 1.6283 | 1.6469 | 1.6521 | 1.6875 |  | 1.635 |
|        | 1 11/16-18 UNEF | 2B | 1.627 | 1.64   | 1.6514 | 1.658  | 1.6875 |  | 1.64  |
|        |                 | 3B | 1.627 | 1.6355 | 1.6514 | 1.6563 | 1.6875 |  | 1.64  |
|        | 1 11/16-20 UN   | 2B | 1.633 | 1.645  | 1.655  | 1.6613 | 1.6875 |  | 1.64  |
|        |                 | 3B | 1.633 | 1.6412 | 1.655  | 1.6597 | 1.6875 |  | 1.64  |
| 1.75   | 1 3/4-5 UNC     | 1B | 1.534 | 1.568  | 1.6201 | 1.6375 | 1.75   |  | 1.57  |
|        |                 | 2B | 1.534 | 1.568  | 1.6201 | 1.6317 | 1.75   |  | 1.57  |
|        |                 | 3B | 1.534 | 1.5575 | 1.6201 | 1.6288 | 1.75   |  | 1.57  |
|        | 1 3/4-6 UN      | 2B | 1.57  | 1.6    | 1.6417 | 1.6525 | 1.75   |  | 1.57  |
|        |                 | 3B | 1.57  | 1.5896 | 1.6417 | 1.6498 | 1.75   |  | 1.57  |
|        | 1 3/4-8 UN      | 2B | 1.615 | 1.64   | 1.6688 | 1.6786 | 1.75   |  | 1.64  |
|        |                 | 3B | 1.615 | 1.6297 | 1.6688 | 1.6762 | 1.75   |  | 1.64  |
|        | 1 3/4-10 UNS    | 2B | 1.642 | 1.663  | 1.685  | 1.6934 | 1.75   |  | 1.64  |
|        | 1 3/4-12 UN     | 2B | 1.66  | 1.678  | 1.6959 | 1.7037 | 1.75   |  | 1.68  |
|        |                 | 3B | 1.66  | 1.6698 | 1.6959 | 1.7017 | 1.75   |  | 1.68  |
|        | 1 3/4-14 UNS    | 2B | 1.673 | 1.688  | 1.7036 | 1.7109 | 1.75   |  | 1.68  |
|        | 1 3/4-16 UN     | 2B | 1.682 | 1.696  | 1.7094 | 1.7163 | 1.75   |  | 1.697 |
|        |                 | 3B | 1.682 | 1.6908 | 1.7094 | 1.7146 | 1.75   |  | 1.697 |
|        | 1 3/4-18 UNS    | 2B | 1.69  | 1.703  | 1.7139 | 1.7205 | 1.75   |  | 1.697 |
|        | 1 3/4-20 UN     | 2B | 1.696 | 1.707  | 1.7175 | 1.7238 | 1.75   |  | 1.707 |
|        |                 | 3B | 1.696 | 1.7037 | 1.7175 | 1.7222 | 1.75   |  | 1.707 |
| 1.8125 | 1 13/16-6 UN    | 2B | 1.632 | 1.663  | 1.7042 | 1.7151 | 1.8125 |  | 1.76  |
|        |                 | 3B | 1.632 | 1.6521 | 1.7042 | 1.7124 | 1.8125 |  | 1.76  |
|        | 1 13/16-8 UN    | 2B | 1.677 | 1.702  | 1.7313 | 1.7412 | 1.8125 |  | 1.76  |
|        |                 | 3B | 1.677 | 1.6922 | 1.7313 | 1.7387 | 1.8125 |  | 1.76  |
|        | 1 13/16-12 UN   | 2B | 1.722 | 1.74   | 1.7584 | 1.7662 | 1.8125 |  | 1.76  |
|        |                 | 3B | 1.722 | 1.7323 | 1.7584 | 1.7642 | 1.8125 |  | 1.76  |
|        | 1 13/16-16 UN   | 2B | 1.745 | 1.759  | 1.7719 | 1.7788 | 1.8125 |  | 1.76  |
|        |                 | 3B | 1.745 | 1.7533 | 1.7719 | 1.7771 | 1.8125 |  | 1.76  |
|        | 1 13/16-20 UN   | 2B | 1.758 | 1.77   | 1.78   | 1.7863 | 1.8125 |  | 1.76  |
|        |                 | 3B | 1.758 | 1.7662 | 1.78   | 1.7847 | 1.8125 |  | 1.76  |
| 1.875  | 1 7/8-6 UN      | 2B | 1.695 | 1.725  | 1.7667 | 1.7777 | 1.875  |  | 1.765 |
|        |                 | 3B | 1.695 | 1.7146 | 1.7667 | 1.7749 | 1.875  |  | 1.765 |
|        | 1 7/8-8 UN      | 2B | 1.74  | 1.765  | 1.7938 | 1.8038 | 1.875  |  | 1.765 |
|        |                 | 3B | 1.74  | 1.7547 | 1.7938 | 1.8013 | 1.875  |  | 1.765 |
|        | 1 7/8-10 UNS    | 2B | 1.767 | 1.788  | 1.81   | 1.8184 | 1.875  |  | 1.765 |
|        | 1 7/8-12 UN     | 2B | 1.785 | 1.803  | 1.8209 | 1.8287 | 1.875  |  | 1.804 |
|        |                 | 3B | 1.785 | 1.7948 | 1.8209 | 1.8267 | 1.875  |  | 1.804 |
|        | 1 7/8-14 UNS    | 2B | 1.798 | 1.814  | 1.8286 | 1.8359 | 1.875  |  | 1.804 |
|        | 1 7/8-16 UN     | 2B | 1.807 | 1.821  | 1.8344 | 1.8413 | 1.875  |  | 1.823 |
|        |                 | 3B | 1.807 | 1.8158 | 1.8344 | 1.8396 | 1.875  |  | 1.823 |
|        | 1 7/8-18 UNS    | 2B | 1.815 | 1.828  | 1.8389 | 1.8455 | 1.875  |  | 1.823 |
|        | 1 7/8-20 UN     | 2B | 1.821 | 1.832  | 1.8425 | 1.8488 | 1.875  |  | 1.823 |
|        |                 | 3B | 1.821 | 1.8287 | 1.8425 | 1.8472 | 1.875  |  | 1.823 |
| 1.9375 | 1 15/16-6 UN    | 2B | 1.757 | 1.788  | 1.8292 | 1.8403 | 1.9375 |  | 1.88  |
|        |                 | 3B | 1.757 | 1.7771 | 1.8292 | 1.8375 | 1.9375 |  | 1.88  |
|        | 1 15/16-8 UN    | 2B | 1.802 | 1.827  | 1.8563 | 1.8663 | 1.9375 |  | 1.88  |
|        |                 | 3B | 1.802 | 1.8172 | 1.8563 | 1.8638 | 1.9375 |  | 1.88  |
|        | 1 15/16-12 UN   | 2B | 1.847 | 1.865  | 1.8834 | 1.8913 | 1.9375 |  | 1.88  |
|        |                 | 3B | 1.847 | 1.8573 | 1.8834 | 1.8893 | 1.9375 |  | 1.88  |
|        | 1 15/16-16 UN   | 2B | 1.87  | 1.884  | 1.8969 | 1.9039 | 1.9375 |  | 1.885 |
|        |                 | 3B | 1.87  | 1.8783 | 1.8969 | 1.9021 | 1.9375 |  | 1.885 |
|        | 1 15/16-20 UN   | 2B | 1.883 | 1.895  | 1.905  | 1.9114 | 1.9375 |  | 1.885 |
|        |                 | 3B | 1.883 | 1.8912 | 1.905  | 1.9098 | 1.9375 |  | 1.885 |

|              |               |    |       |        |        |        |        |  |       |
|--------------|---------------|----|-------|--------|--------|--------|--------|--|-------|
| 2            | 2-4.5 UNC     | 1B | 1.759 | 1.795  | 1.8557 | 1.8743 | 2      |  | 1.8   |
|              |               | 2B | 1.759 | 1.795  | 1.8557 | 1.8681 | 2      |  | 1.8   |
|              |               | 3B | 1.759 | 1.7861 | 1.8557 | 1.865  | 2      |  | 1.8   |
| 2-6 UN       |               | 2B | 1.82  | 1.85   | 1.8917 | 1.9028 | 2      |  | 1.89  |
|              |               | 3B | 1.82  | 1.8396 | 1.8917 | 1.9    | 2      |  | 1.89  |
| 2-8 UN       |               | 2B | 1.865 | 1.89   | 1.9188 | 1.9289 | 2      |  | 1.89  |
|              |               | 3B | 1.865 | 1.8797 | 1.9188 | 1.9264 | 2      |  | 1.89  |
| 2-10 UNS     |               | 2B | 1.892 | 1.913  | 1.935  | 1.9435 | 2      |  | 1.89  |
| 2-12 UN      |               | 2B | 1.91  | 1.928  | 1.9459 | 1.9538 | 2      |  | 1.93  |
|              |               | 3B | 1.91  | 1.9198 | 1.9459 | 1.9518 | 2      |  | 1.93  |
| 2-14 UNS     |               | 2B | 1.923 | 1.938  | 1.9536 | 1.961  | 2      |  | 1.93  |
| 2-16 UN      |               | 2B | 1.932 | 1.946  | 1.9594 | 1.9664 | 2      |  | 1.947 |
|              |               | 3B | 1.932 | 1.9408 | 1.9594 | 1.9646 | 2      |  | 1.947 |
| 2-18 UNS     |               | 2B | 1.94  | 1.953  | 1.9639 | 1.9706 | 2      |  | 1.947 |
| 2-20 UN      |               | 2B | 1.946 | 1.957  | 1.9675 | 1.9739 | 2      |  | 1.958 |
|              |               | 3B | 1.946 | 1.9537 | 1.9675 | 1.9723 | 2      |  | 1.958 |
| 2.0625       | 2 1/16-16 UNS | 2B | 1.995 | 2.009  | 2.0219 | 2.0289 | 2.0625 |  | 2.01  |
|              |               | 3B | 1.995 | 2.0033 | 2.0219 | 2.0271 | 2.0625 |  | 2.01  |
| 2.125        | 2 1/8-6 UN    | 2B | 1.945 | 1.975  | 2.0167 | 2.028  | 2.125  |  | 2.015 |
|              |               | 3B | 1.945 | 1.9646 | 2.0167 | 2.0251 | 2.125  |  | 2.015 |
| 2 1/8-8 UN   |               | 2B | 1.99  | 2.015  | 2.0438 | 2.054  | 2.125  |  | 2.015 |
|              |               | 3B | 1.99  | 2.0047 | 2.0438 | 2.0515 | 2.125  |  | 2.015 |
| 2 1/8-12 UN  |               | 2B | 2.035 | 2.053  | 2.0709 | 2.0788 | 2.125  |  | 2.055 |
|              |               | 3B | 2.035 | 2.0448 | 2.0709 | 2.0768 | 2.125  |  | 2.055 |
| 2 1/8-16 UN  |               | 2B | 2.057 | 2.071  | 2.0844 | 2.0914 | 2.125  |  | 2.07  |
|              |               | 3B | 2.057 | 2.0658 | 2.0844 | 2.0896 | 2.125  |  | 2.07  |
| 2 1/8-20 UN  |               | 2B | 2.071 | 2.082  | 2.0925 | 2.0989 | 2.125  |  | 2.07  |
|              |               | 3B | 2.071 | 2.0787 | 2.0925 | 2.0973 | 2.125  |  | 2.07  |
| 2.1875       | 2 3/16-16 UNS | 2B | 2.12  | 2.134  | 2.1469 | 2.1539 | 2.1875 |  | 2.135 |
|              |               | 3B | 2.12  | 2.1283 | 2.1469 | 2.1521 | 2.1875 |  | 2.135 |
| 2.25         | 2 1/4-4.5 UNC | 1B | 2.009 | 2.045  | 2.1057 | 2.1247 | 2.25   |  | 2.045 |
|              |               | 2B | 2.009 | 2.045  | 2.1057 | 2.1183 | 2.25   |  | 2.045 |
|              |               | 3B | 2.009 | 2.0361 | 2.1057 | 2.1152 | 2.25   |  | 2.045 |
| 2 1/4-6 UN   |               | 2B | 2.07  | 2.1    | 2.1417 | 2.1531 | 2.25   |  | 2.045 |
|              |               | 3B | 2.07  | 2.0896 | 2.1417 | 2.1502 | 2.25   |  | 2.045 |
| 2 1/4-8 UN   |               | 2B | 2.115 | 2.14   | 2.1688 | 2.1792 | 2.25   |  | 2.14  |
|              |               | 3B | 2.115 | 2.1297 | 2.1688 | 2.1766 | 2.25   |  | 2.14  |
| 2 1/4-10 UNS |               | 2B | 2.142 | 2.163  | 2.185  | 2.1935 | 2.25   |  | 2.14  |
| 2 1/4-12 UN  |               | 2B | 2.16  | 2.178  | 2.1959 | 2.2038 | 2.25   |  | 2.178 |
|              |               | 3B | 2.16  | 2.1698 | 2.1959 | 2.2018 | 2.25   |  | 2.178 |
| 2 1/4-14 UNS |               | 2B | 2.173 | 2.188  | 2.2036 | 2.211  | 2.25   |  | 2.178 |
| 2 1/4-16 UN  |               | 2B | 2.182 | 2.196  | 2.2094 | 2.2164 | 2.25   |  | 2.197 |
|              |               | 3B | 2.182 | 2.1908 | 2.2094 | 2.2146 | 2.25   |  | 2.197 |
| 2 1/4-18 UNS |               | 2B | 2.19  | 2.203  | 2.2139 | 2.2206 | 2.25   |  | 2.197 |
| 2 1/4-20 UN  |               | 2B | 2.196 | 2.207  | 2.2175 | 2.2239 | 2.25   |  | 2.207 |
|              |               | 3B | 2.196 | 2.2037 | 2.2175 | 2.2223 | 2.25   |  | 2.207 |
| 2.3125       | 2 5/16-16 UNS | 2B | 2.245 | 2.259  | 2.2719 | 2.2791 | 2.3125 |  | 2.26  |
|              |               | 3B | 2.245 | 2.2533 | 2.2719 | 2.2773 | 2.3125 |  | 2.26  |
| 2.375        | 2 3/8-6 UN    | 2B | 2.195 | 2.226  | 2.2667 | 2.2782 | 2.375  |  | 2.3   |
|              |               | 3B | 2.195 | 2.2146 | 2.2667 | 2.2753 | 2.375  |  | 2.3   |
| 2 3/8-8 UN   |               | 2B | 2.24  | 2.265  | 2.2938 | 2.3043 | 2.375  |  | 2.3   |
|              |               | 3B | 2.24  | 2.2547 | 2.2938 | 2.3017 | 2.375  |  | 2.3   |
| 2 3/8-12 UN  |               | 2B | 2.285 | 2.303  | 2.3209 | 2.329  | 2.375  |  | 2.305 |
|              |               | 3B | 2.285 | 2.2948 | 2.3209 | 2.3269 | 2.375  |  | 2.305 |
| 2 3/8-16 UN  |               | 2B | 2.307 | 2.321  | 2.3344 | 2.3416 | 2.375  |  | 2.32  |
|              |               | 3B | 2.307 | 2.3158 | 2.3344 | 2.3398 | 2.375  |  | 2.32  |

|        |               |    |       |        |        |        |        |  |       |
|--------|---------------|----|-------|--------|--------|--------|--------|--|-------|
|        | 2 3/8-20 UN   | 2B | 2.321 | 2.332  | 2.3425 | 2.3491 | 2.375  |  | 2.32  |
|        |               | 3B | 2.321 | 2.3287 | 2.3425 | 2.3475 | 2.375  |  | 2.32  |
| 2.4375 | 2 7/16-16 UNS | 2B | 2.37  | 2.384  | 2.3969 | 2.4041 | 2.4375 |  | 2.385 |
|        |               | 3B | 2.37  | 2.3783 | 2.3969 | 2.4023 | 2.4375 |  | 2.385 |
| 2.5    | 2 1/2-4 UNC   | 1B | 2.229 | 2.267  | 2.3376 | 2.3578 | 2.5    |  | 2.265 |
|        |               | 2B | 2.229 | 2.267  | 2.3376 | 2.3511 | 2.5    |  | 2.265 |
|        |               | 3B | 2.229 | 2.2594 | 2.3376 | 2.3477 | 2.5    |  | 2.265 |
|        | 2 1/2-6 UN    | 2B | 2.32  | 2.35   | 2.3917 | 2.4033 | 2.5    |  | 2.265 |
|        |               | 3B | 2.32  | 2.3396 | 2.3917 | 2.4004 | 2.5    |  | 2.265 |
|        | 2 1/2-8 UN    | 2B | 2.365 | 2.39   | 2.4188 | 2.4294 | 2.5    |  | 2.39  |
|        |               | 3B | 2.365 | 2.3797 | 2.4188 | 2.4268 | 2.5    |  | 2.39  |
|        | 2 1/2-10 UNS  | 2B | 2.392 | 2.413  | 2.435  | 2.4437 | 2.5    |  | 2.39  |
|        | 2 1/2-12 UN   | 2B | 2.41  | 2.428  | 2.4459 | 2.454  | 2.5    |  | 2.43  |
|        |               | 3B | 2.41  | 2.4198 | 2.4459 | 2.4519 | 2.5    |  | 2.43  |
|        | 2 1/2-14 UNS  | 2B | 2.423 | 2.438  | 2.4536 | 2.4612 | 2.5    |  | 2.43  |
|        | 2 1/2-16 UN   | 2B | 2.432 | 2.446  | 2.4594 | 2.4666 | 2.5    |  | 2.447 |
|        |               | 3B | 2.432 | 2.4408 | 2.4594 | 2.4648 | 2.5    |  | 2.447 |
|        | 2 1/2-18 UNS  | 2B | 2.44  | 2.453  | 2.4639 | 2.4708 | 2.5    |  | 2.447 |
|        | 2 1/2-20 UN   | 2B | 2.446 | 2.457  | 2.4675 | 2.4741 | 2.5    |  | 2.5   |
|        |               | 3B | 2.446 | 2.4537 | 2.4675 | 2.4725 | 2.5    |  | 2.5   |
| 2.625  | 2 5/8-6 UN    | 2B | 2.445 | 2.475  | 2.5167 | 2.5285 | 2.625  |  | 2.5   |
|        |               | 3B | 2.445 | 2.4646 | 2.5167 | 2.5255 | 2.625  |  | 2.5   |
|        | 2 5/8-8 UN    | 2B | 2.49  | 2.515  | 2.5438 | 2.5545 | 2.625  |  | 2.5   |
|        |               | 3B | 2.49  | 2.5047 | 2.5438 | 2.5518 | 2.625  |  | 2.5   |
|        | 2 5/8-12 UN   | 2B | 2.535 | 2.553  | 2.5709 | 2.579  | 2.625  |  | 2.555 |
|        |               | 3B | 2.535 | 2.5448 | 2.5709 | 2.5769 | 2.625  |  | 2.555 |
|        | 2 5/8-16 UN   | 2B | 2.557 | 2.571  | 2.5844 | 2.5916 | 2.625  |  | 2.571 |
|        |               | 3B | 2.557 | 2.5658 | 2.5844 | 2.5898 | 2.625  |  | 2.571 |
|        | 2 5/8-20 UN   | 2B | 2.571 | 2.582  | 2.5925 | 2.5991 | 2.625  |  | 2.571 |
|        |               | 3B | 2.571 | 2.5787 | 2.5925 | 2.5975 | 2.625  |  | 2.571 |
| 2.75   | 2 3/4-4 UNC   | 1B | 2.479 | 2.517  | 2.5876 | 2.6082 | 2.75   |  | 2.515 |
|        |               | 2B | 2.479 | 2.517  | 2.5876 | 2.6013 | 2.75   |  | 2.515 |
|        |               | 3B | 2.479 | 2.5094 | 2.5876 | 2.5979 | 2.75   |  | 2.515 |
|        | 2 3/4-6 UN    | 2B | 2.57  | 2.6    | 2.6417 | 2.6536 | 2.75   |  | 2.515 |
|        |               | 3B | 2.57  | 2.5896 | 2.6417 | 2.6506 | 2.75   |  | 2.515 |
|        | 2 3/4-8 UN    | 2B | 2.615 | 2.64   | 2.6688 | 2.6796 | 2.75   |  | 2.639 |
|        |               | 3B | 2.615 | 2.6297 | 2.6688 | 2.6769 | 2.75   |  | 2.639 |
|        | 2 3/4-10 UNS  | 2B | 2.642 | 2.663  | 2.685  | 2.6937 | 2.75   |  | 2.639 |
|        | 2 3/4-12 UN   | 2B | 2.66  | 2.678  | 2.6959 | 2.704  | 2.75   |  | 2.68  |
|        |               | 3B | 2.66  | 2.6698 | 2.6959 | 2.7019 | 2.75   |  | 2.68  |
|        | 2 3/4-14 UNS  | 2B | 2.673 | 2.688  | 2.7036 | 2.7112 | 2.75   |  | 2.68  |
|        | 2 3/4-16 UN   | 2B | 2.682 | 2.696  | 2.7094 | 2.7166 | 2.75   |  | 2.697 |
|        |               | 3B | 2.682 | 2.6908 | 2.7094 | 2.7148 | 2.75   |  | 2.697 |
|        | 2 3/4-18 UNS  | 2B | 2.69  | 2.703  | 2.7139 | 2.7208 | 2.75   |  | 2.697 |
|        | 2 3/4-20 UN   | 2B | 2.696 | 2.707  | 2.7175 | 2.7241 | 2.75   |  | 2.697 |
|        |               | 3B | 2.696 | 2.7037 | 2.7175 | 2.7225 | 2.75   |  | 2.697 |
| 2.875  | 2 7/8-6 UN    | 2B | 2.695 | 2.725  | 2.7667 | 2.7787 | 2.875  |  | 2.8   |
|        |               | 3B | 2.695 | 2.7146 | 2.7667 | 2.7757 | 2.875  |  | 2.8   |
|        | 2 7/8-8 UN    | 2B | 2.74  | 2.765  | 2.7938 | 2.8048 | 2.875  |  | 2.8   |
|        |               | 3B | 2.74  | 2.7547 | 2.7938 | 2.802  | 2.875  |  | 2.8   |
|        | 2 7/8-12 UN   | 2B | 2.785 | 2.803  | 2.8209 | 2.8291 | 2.875  |  | 2.8   |
|        |               | 3B | 2.785 | 2.7948 | 2.8209 | 2.8271 | 2.875  |  | 2.8   |
|        | 2 7/8-16 UN   | 2B | 2.807 | 2.821  | 2.8344 | 2.8417 | 2.875  |  | 2.821 |
|        |               | 3B | 2.807 | 2.8158 | 2.8344 | 2.8399 | 2.875  |  | 2.821 |
|        | 2 7/8-20 UN   | 2B | 2.821 | 2.832  | 2.8425 | 2.8493 | 2.875  |  | 2.821 |
|        |               | 3B | 2.821 | 2.8287 | 2.8425 | 2.8476 | 2.875  |  | 2.821 |

|       |             |    |       |        |        |        |       |  |       |
|-------|-------------|----|-------|--------|--------|--------|-------|--|-------|
| 3     | 3-4 UNC     | 1B | 2.729 | 2.767  | 2.8376 | 2.8585 | 3     |  | 2.765 |
|       |             | 2B | 2.729 | 2.767  | 2.8376 | 2.8515 | 3     |  | 2.765 |
|       |             | 3B | 2.729 | 2.7594 | 2.8376 | 2.848  | 3     |  | 2.765 |
| 3-6   | UN          | 2B | 2.82  | 2.85   | 2.8917 | 2.9038 | 3     |  | 2.765 |
|       |             | 3B | 2.82  | 2.8396 | 2.8917 | 2.9008 | 3     |  | 2.765 |
| 3-8   | UN          | 2B | 2.865 | 2.89   | 2.9188 | 2.9299 | 3     |  | 2.89  |
|       |             | 3B | 2.865 | 2.8797 | 2.9188 | 2.9271 | 3     |  | 2.89  |
| 3-10  | UNS         | 2B | 2.892 | 2.913  | 2.935  | 2.9439 | 3     |  | 2.89  |
| 3-12  | UN          | 2B | 2.91  | 2.928  | 2.9459 | 2.9541 | 3     |  | 2.93  |
|       |             | 3B | 2.91  | 2.9198 | 2.9459 | 2.9521 | 3     |  | 2.93  |
| 3-14  | UNS         | 2B | 2.923 | 2.938  | 2.9536 | 2.9613 | 3     |  | 2.93  |
| 3-16  | UN          | 2B | 2.932 | 2.946  | 2.9594 | 2.9667 | 3     |  | 2.947 |
|       |             | 3B | 2.932 | 2.9408 | 2.9594 | 2.9649 | 3     |  | 2.947 |
| 3-18  | UNS         | 2B | 2.94  | 2.953  | 2.9639 | 2.9709 | 3     |  | 2.947 |
| 3-20  | UN          | 2B | 2.946 | 2.957  | 2.9675 | 2.9743 | 3     |  | 2.947 |
|       |             | 3B | 2.946 | 2.9537 | 2.9675 | 2.9726 | 3     |  | 2.947 |
| 3.125 | 3 1/8-6 UN  | 2B | 2.945 | 2.975  | 3.0167 | 3.0289 | 3.125 |  | 3.04  |
|       |             | 3B | 2.945 | 2.9646 | 3.0167 | 3.0259 | 3.125 |  | 3.04  |
| 3 1/8 | -8 UN       | 2B | 2.99  | 3.015  | 3.0438 | 3.055  | 3.125 |  | 3.04  |
|       |             | 3B | 2.99  | 3.0047 | 3.0438 | 3.0522 | 3.125 |  | 3.04  |
| 3 1/8 | -12 UN      | 2B | 3.035 | 3.053  | 3.0709 | 3.0791 | 3.125 |  | 3.05  |
|       |             | 3B | 3.035 | 3.0448 | 3.0709 | 3.0771 | 3.125 |  | 3.05  |
| 3 1/8 | -16 UN      | 2B | 3.057 | 3.071  | 3.0844 | 3.0917 | 3.125 |  | 3.071 |
|       |             | 3B | 3.057 | 3.0658 | 3.0844 | 3.0899 | 3.125 |  | 3.071 |
| 3.25  | 3 1/4-4 UNC | 1B | 2.979 | 3.017  | 3.0876 | 3.1088 | 3.25  |  | 3.019 |
|       |             | 2B | 2.979 | 3.017  | 3.0876 | 3.1017 | 3.25  |  | 3.019 |
|       |             | 3B | 2.979 | 3.0094 | 3.0876 | 3.0982 | 3.25  |  | 3.019 |
| 3 1/4 | -6 UN       | 2B | 3.07  | 3.1    | 3.1417 | 3.154  | 3.25  |  | 3.019 |
|       |             | 3B | 3.07  | 3.0896 | 3.1417 | 3.1509 | 3.25  |  | 3.019 |
| 3 1/4 | -8 UN       | 2B | 3.115 | 3.14   | 3.1688 | 3.1801 | 3.25  |  | 3.14  |
|       |             | 3B | 3.115 | 3.1297 | 3.1688 | 3.1773 | 3.25  |  | 3.14  |
| 3 1/4 | -10 UNS     | 2B | 3.142 | 3.163  | 3.185  | 3.1939 | 3.25  |  | 3.14  |
| 3 1/4 | -12 UN      | 2B | 3.16  | 3.178  | 3.1959 | 3.2041 | 3.25  |  | 3.18  |
|       |             | 3B | 3.16  | 3.1698 | 3.1959 | 3.2041 | 3.25  |  | 3.18  |
| 3 1/4 | -14 UNS     | 2B | 3.173 | 3.188  | 3.2036 | 3.2113 | 3.25  |  | 3.18  |
| 3 1/4 | -16 UN      | 2B | 3.182 | 3.196  | 3.2094 | 3.2167 | 3.25  |  | 3.197 |
|       |             | 3B | 3.182 | 3.1908 | 3.2094 | 3.2149 | 3.25  |  | 3.197 |
| 3 1/4 | -18 UNS     | 2B | 3.19  | 3.203  | 3.2139 | 3.2209 | 3.25  |  | 3.197 |
| 3.375 | 3 3/8-6 UN  | 2B | 3.195 | 3.225  | 3.2667 | 3.2791 | 3.375 |  | 3.3   |
|       |             | 3B | 3.195 | 3.2146 | 3.2667 | 3.276  | 3.375 |  | 3.3   |
| 3 3/8 | -8 UN       | 2B | 3.24  | 3.265  | 3.2938 | 3.3052 | 3.375 |  | 3.3   |
|       |             | 3B | 3.24  | 3.2547 | 3.2938 | 3.3023 | 3.375 |  | 3.3   |
| 3 3/8 | -12 UN      | 2B | 3.285 | 3.303  | 3.3209 | 3.3293 | 3.375 |  | 3.3   |
|       |             | 3B | 3.285 | 3.2948 | 3.3209 | 3.3272 | 3.375 |  | 3.3   |
| 3 3/8 | -16 UN      | 2B | 3.307 | 3.321  | 3.3344 | 3.3419 | 3.375 |  | 3.32  |
|       |             | 3B | 3.307 | 3.3158 | 3.3344 | 3.34   | 3.375 |  | 3.32  |
| 3.5   | 3 1/2-4 UNC | 1B | 3.229 | 3.267  | 3.3376 | 3.3591 | 3.5   |  | 3.267 |
|       |             | 2B | 3.229 | 3.267  | 3.3376 | 3.3519 | 3.5   |  | 3.267 |
|       |             | 3B | 3.229 | 3.2594 | 3.3376 | 3.3484 | 3.5   |  | 3.267 |
| 3 1/2 | -6 UN       | 2B | 3.32  | 3.35   | 3.3917 | 3.4042 | 3.5   |  | 3.267 |
|       |             | 3B | 3.32  | 3.3396 | 3.3917 | 3.4011 | 3.5   |  | 3.267 |
| 3 1/2 | -8 UN       | 2B | 3.365 | 3.39   | 3.4188 | 3.4303 | 3.5   |  | 3.39  |
|       |             | 3B | 3.365 | 3.3797 | 3.4188 | 3.4274 | 3.5   |  | 3.39  |
| 3 1/2 | -10 UNS     | 2B | 3.392 | 3.413  | 3.435  | 3.444  | 3.5   |  | 3.39  |
| 3 1/2 | -12 UN      | 2B | 3.41  | 3.428  | 3.4459 | 3.4543 | 3.5   |  | 3.43  |
|       |             | 3B | 3.41  | 3.4198 | 3.4459 | 3.4522 | 3.5   |  | 3.43  |

|       |              |    |       |        |        |        |       |  |       |
|-------|--------------|----|-------|--------|--------|--------|-------|--|-------|
|       | 3 1/2-14 UNS | 2B | 3.423 | 3.438  | 3.4536 | 3.4615 | 3.5   |  | 3.43  |
|       | 3 1/2-16 UN  | 2B | 3.432 | 3.446  | 3.4594 | 3.4669 | 3.5   |  | 3.447 |
|       |              | 3B | 3.432 | 3.4408 | 3.4594 | 3.465  | 3.5   |  | 3.447 |
|       | 3 1/2-18 UNS | 2B | 3.44  | 3.453  | 3.4639 | 3.4711 | 3.5   |  | 3.447 |
| 3.625 | 3 5/8-6 UN   | 2B | 3.445 | 3.475  | 3.5167 | 3.5293 | 3.625 |  | 3.5   |
|       |              | 3B | 3.445 | 3.4646 | 3.5167 | 3.5262 | 3.625 |  | 3.5   |
|       | 3 5/8-8 UN   | 2B | 3.49  | 3.515  | 3.5438 | 3.5554 | 3.625 |  | 3.5   |
|       |              | 3B | 3.49  | 3.5047 | 3.5438 | 3.5525 | 3.625 |  | 3.5   |
|       | 3 5/8-12 UN  | 2B | 3.535 | 3.553  | 3.5709 | 3.5793 | 3.625 |  | 3.55  |
|       |              | 3B | 3.535 | 3.5448 | 3.5709 | 3.5772 | 3.625 |  | 3.55  |
|       | 3 5/8-16 UN  | 2B | 3.557 | 3.571  | 3.5844 | 3.5919 | 3.625 |  | 3.572 |
|       |              | 3B | 3.557 | 3.5658 | 3.5844 | 3.59   | 3.625 |  | 3.572 |
| 3.75  | 3 3/4-4 UNC  | 1B | 3.479 | 3.517  | 3.5876 | 3.6094 | 3.75  |  | 3.52  |
|       |              | 2B | 3.479 | 3.517  | 3.5876 | 3.6021 | 3.75  |  | 3.52  |
|       |              | 3B | 3.479 | 3.5094 | 3.5876 | 3.5985 | 3.75  |  | 3.52  |
|       | 3 3/4-6 UN   | 2B | 3.57  | 3.6    | 3.6417 | 3.6544 | 3.75  |  | 3.52  |
|       |              | 3B | 3.57  | 3.5896 | 3.6417 | 3.6512 | 3.75  |  | 3.52  |
|       | 3 3/4-8 UN   | 2B | 3.615 | 3.64   | 3.6688 | 3.6805 | 3.75  |  | 3.64  |
|       |              | 3B | 3.615 | 3.6297 | 3.6688 | 3.6776 | 3.75  |  | 3.64  |
|       | 3 3/4-10 UNS | 2B | 3.642 | 3.663  | 3.685  | 3.694  | 3.75  |  | 3.64  |
|       | 3 3/4-12 UN  | 2B | 3.66  | 3.678  | 3.6959 | 3.7043 | 3.75  |  | 3.68  |
|       |              | 3B | 3.66  | 3.6698 | 3.6959 | 3.7022 | 3.75  |  | 3.68  |
|       | 3 3/4-14 UNS | 2B | 3.673 | 3.688  | 3.7036 | 3.7115 | 3.75  |  | 3.68  |
|       | 3 3/4-16 UN  | 2B | 3.682 | 3.696  | 3.7094 | 3.7169 | 3.75  |  | 3.697 |
|       |              | 3B | 3.682 | 3.6908 | 3.7094 | 3.715  | 3.75  |  | 3.697 |
|       | 3 3/4-18 UNS | 2B | 3.69  | 3.703  | 3.7139 | 3.7211 | 3.75  |  | 3.697 |
| 3.875 | 3 7/8-6 UN   | 2B | 3.695 | 3.725  | 3.7667 | 3.7795 | 3.875 |  | 3.8   |
|       |              | 3B | 3.695 | 3.7146 | 3.7667 | 3.7763 | 3.875 |  | 3.8   |
|       | 3 7/8-8 UN   | 2B | 3.74  | 3.765  | 3.7938 | 3.8056 | 3.875 |  | 3.8   |
|       |              | 3B | 3.74  | 3.7547 | 3.7938 | 3.8026 | 3.875 |  | 3.8   |
|       | 3 7/8-12 UN  | 2B | 3.785 | 3.803  | 3.8209 | 3.8294 | 3.875 |  | 3.805 |
|       |              | 3B | 3.785 | 3.7948 | 3.8209 | 3.8273 | 3.875 |  | 3.805 |
|       | 3 7/8-16 UN  | 2B | 3.807 | 3.821  | 3.8344 | 3.842  | 3.875 |  | 3.821 |
|       |              | 3B | 3.807 | 3.8158 | 3.8344 | 3.8401 | 3.875 |  | 3.821 |
| 4     | 4-4 UNC      | 1B | 3.729 | 3.767  | 3.8376 | 3.8597 | 4     |  | 3.77  |
|       |              | 2B | 3.729 | 3.767  | 3.8376 | 3.8523 | 4     |  | 3.77  |
|       |              | 3B | 3.729 | 3.7594 | 3.8376 | 3.8487 | 4     |  | 3.77  |
|       | 4-6 UN       | 2B | 3.82  | 3.85   | 3.8917 | 3.9046 | 4     |  | 3.77  |
|       |              | 3B | 3.82  | 3.8396 | 3.8917 | 3.9014 | 4     |  | 3.77  |
|       | 4-8 UN       | 2B | 3.865 | 3.89   | 3.9188 | 3.9307 | 4     |  | 3.89  |
|       |              | 3B | 3.865 | 3.8797 | 3.9188 | 3.9277 | 4     |  | 3.89  |
|       | 4-10 UNS     | 2B | 3.892 | 3.913  | 3.935  | 3.9441 | 4     |  | 3.89  |
|       | 4-12 UN      | 2B | 3.91  | 3.928  | 3.9459 | 3.9544 | 4     |  | 3.93  |
|       |              | 3B | 3.91  | 3.9198 | 3.9459 | 3.9523 | 4     |  | 3.93  |
|       | 4-14 UNS     | 2B | 3.923 | 3.938  | 3.9536 | 3.9616 | 4     |  | 3.947 |
|       | 4-16 UN      | 2B | 3.932 | 3.946  | 3.9594 | 3.967  | 4     |  | 3.947 |
|       |              | 3B | 3.932 | 3.9408 | 3.9594 | 3.9651 | 4     |  | 3.947 |

























