

# .3125-18 UNC to .5625 -32 UN Threads

| Nominal Size,<br>TPI, Series |              |       |         |         | Class   | Allowance | Max<br>Major<br>Max<br>Minor | Min Major |           | Min<br>Pitch | UNR Minor<br>Dia<br>Major<br>Dia(Min) |        |        |
|------------------------------|--------------|-------|---------|---------|---------|-----------|------------------------------|-----------|-----------|--------------|---------------------------------------|--------|--------|
|                              | TPI          | Pitch | P/4     | P/8     |         |           |                              | Min       | Max Pitch |              |                                       |        |        |
|                              |              |       | inch    | inch    |         |           |                              | inch      | inch      | inch         | inch                                  |        |        |
| Ext.                         | 5/16-18 UNC  | 18    | 0.05556 | 0.01389 | 0.00694 | <u>1A</u> | 0.0012                       | 0.3113    | 0.2982    | -            | 0.2752                                | 0.2691 | 0.2452 |
| Int.                         |              | 18    | 0.05556 | 0.01389 | 0.00694 | <u>1B</u> |                              | 0.265     | 0.252     |              | 0.2843                                | 0.2764 | 0.3125 |
| Ext.                         | 5/16-18 UNC  | 18    | 0.05556 | 0.01389 | 0.00694 | <u>2A</u> | 0.0012                       | 0.3113    | 0.3026    | 0.298        | 0.2752                                | 0.2712 | 0.2452 |
| Int.                         |              | 18    | 0.05556 | 0.01389 | 0.00694 | <u>2B</u> |                              | 0.265     | 0.252     |              | 0.2817                                | 0.2764 | 0.3125 |
| Ext.                         | 5/16-18 UNC  | 18    | 0.05556 | 0.01389 | 0.00694 | <u>3A</u> | 0                            | 0.3125    | 0.3038    | -            | 0.2764                                | 0.2734 | 0.2464 |
| Int.                         |              | 18    | 0.05556 | 0.01389 | 0.00694 | <u>3B</u> |                              | 0.263     | 0.252     |              | 0.2803                                | 0.2764 | 0.3125 |
| Ext.                         | 5/16-20 UN   | 20    | 0.05000 | 0.01250 | 0.00625 | <u>2A</u> | 0.0012                       | 0.3113    | 0.3032    | -            | 0.2788                                | 0.2748 | 0.2518 |
| Int.                         |              | 20    | 0.05000 | 0.01250 | 0.00625 | <u>2B</u> |                              | 0.27      | 0.258     |              | 0.2852                                | 0.28   | 0.3125 |
| Ext.                         | 5/16-20 UN   | 20    | 0.05000 | 0.01250 | 0.00625 | <u>3A</u> | 0                            | 0.3125    | 0.3044    | -            | 0.28                                  | 0.277  | 0.253  |
| Int.                         |              | 20    | 0.05000 | 0.01250 | 0.00625 | <u>3B</u> |                              | 0.268     | 0.258     |              | 0.2839                                | 0.28   | 0.3125 |
| Ext.                         | 5/16-24 UNF  | 24    | 0.04167 | 0.01042 | 0.00521 | <u>1A</u> | 0.0011                       | 0.3114    | 0.3006    | -            | 0.2843                                | 0.2788 | 0.2618 |
| Int.                         |              | 24    | 0.04167 | 0.01042 | 0.00521 | <u>1B</u> |                              | 0.277     | 0.267     |              | 0.2925                                | 0.2854 | 0.3125 |
| Ext.                         | 5/16-24 UNF  | 24    | 0.04167 | 0.01042 | 0.00521 | <u>2A</u> | 0.0011                       | 0.3114    | 0.3042    | -            | 0.2843                                | 0.2806 | 0.2618 |
| Int.                         |              | 24    | 0.04167 | 0.01042 | 0.00521 | <u>2B</u> |                              | 0.277     | 0.267     |              | 0.2902                                | 0.2854 | 0.3125 |
| Ext.                         | 5/16-24 UNF  | 24    | 0.04167 | 0.01042 | 0.00521 | <u>3A</u> | 0                            | 0.3125    | 0.3053    | -            | 0.2854                                | 0.2827 | 0.2629 |
| Int.                         |              | 24    | 0.04167 | 0.01042 | 0.00521 | <u>3B</u> |                              | 0.2754    | 0.267     |              | 0.289                                 | 0.2854 | 0.3125 |
| Ext.                         | 5/16-27 UNS  | 27    | 0.03704 | 0.00926 | 0.00463 | <u>2A</u> | 0.001                        | 0.3115    | 0.3048    | -            | 0.2874                                | 0.2839 | 0.2674 |
| Int.                         |              | 27    | 0.03704 | 0.00926 | 0.00463 | <u>2B</u> |                              | 0.281     | 0.272     |              | 0.2929                                | 0.2884 | 0.3125 |
| Ext.                         | 5/16-28 UN   | 28    | 0.03571 | 0.00893 | 0.00446 | <u>2A</u> | 0.001                        | 0.3115    | 0.305     | -            | 0.2883                                | 0.2849 | 0.2689 |
| Int.                         |              | 28    | 0.03571 | 0.00893 | 0.00446 | <u>2B</u> |                              | 0.282     | 0.274     |              | 0.2937                                | 0.2893 | 0.3125 |
| Ext.                         | 5/16-28 UN   | 28    | 0.03571 | 0.00893 | 0.00446 | <u>3A</u> | 0                            | 0.3125    | 0.306     | -            | 0.2893                                | 0.2867 | 0.2699 |
| Int.                         |              | 28    | 0.03571 | 0.00893 | 0.00446 | <u>3B</u> |                              | 0.2807    | 0.274     |              | 0.2926                                | 0.2893 | 0.3125 |
| Ext.                         | 5/16-32 UNEF | 32    | 0.03125 | 0.00781 | 0.00391 | <u>2A</u> | 0.001                        | 0.3115    | 0.3055    | -            | 0.2912                                | 0.288  | 0.2743 |
| Int.                         |              | 32    | 0.03125 | 0.00781 | 0.00391 | <u>2B</u> |                              | 0.286     | 0.279     |              | 0.2964                                | 0.2922 | 0.3125 |
| Ext.                         | 5/16-32 UNEF | 32    | 0.03125 | 0.00781 | 0.00391 | <u>3A</u> | 0                            | 0.3125    | 0.3065    | -            | 0.2922                                | 0.2898 | 0.2753 |
| Int.                         |              | 32    | 0.03125 | 0.00781 | 0.00391 | <u>3B</u> |                              | 0.2847    | 0.279     |              | 0.2953                                | 0.2922 | 0.3125 |
| Ext.                         | 5/16-36 UNS  | 36    | 0.02778 | 0.00694 | 0.00347 | <u>2A</u> | 0.0009                       | 0.3116    | 0.3061    | -            | 0.2936                                | 0.2905 | 0.2785 |
| Int.                         |              | 36    | 0.02778 | 0.00694 | 0.00347 | <u>2B</u> |                              | 0.289     | 0.282     |              | 0.2985                                | 0.2945 | 0.3125 |
| Ext.                         | 5/16-40 UNS  | 40    | 0.02500 | 0.00625 | 0.00313 | <u>2A</u> | 0.0009                       | 0.3116    | 0.3065    | -            | 0.2954                                | 0.2925 | 0.2818 |
| Int.                         |              | 40    | 0.02500 | 0.00625 | 0.00313 | <u>2B</u> |                              | 0.291     | 0.285     |              | 0.3001                                | 0.2963 | 0.3125 |
| Ext.                         | 5/16-48 UNS  | 48    | 0.02083 | 0.00521 | 0.00260 | <u>2A</u> | 0.0008                       | 0.3117    | 0.3072    | -            | 0.2982                                | 0.2955 | 0.2869 |

|      |                        |    |         |         |         |           |        |               |              |      |               |               |               |
|------|------------------------|----|---------|---------|---------|-----------|--------|---------------|--------------|------|---------------|---------------|---------------|
| Int. |                        | 48 | 0.02083 | 0.00521 | 0.00260 | <u>2B</u> |        | <b>0.295</b>  | <b>0.29</b>  |      | <b>0.3026</b> | <b>0.299</b>  | <b>0.3125</b> |
| Ext. | $\frac{3}{8}$ -16 UNC  | 16 | 0.06250 | 0.01563 | 0.00781 | <u>1A</u> | 0.0013 | 0.3737        | 0.3595       | -    | 0.3331        | 0.3266        | 0.2992        |
| Int. |                        | 16 | 0.06250 | 0.01563 | 0.00781 | <u>1B</u> |        | <b>0.321</b>  | <b>0.307</b> |      | <b>0.3429</b> | <b>0.3344</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -16 UNC  | 16 | 0.06250 | 0.01563 | 0.00781 | <u>2A</u> | 0.0013 | 0.3737        | 0.3643       | 0.36 | 0.3331        | 0.3287        | 0.2992        |
| Int. |                        | 16 | 0.06250 | 0.01563 | 0.00781 | <u>2B</u> |        | <b>0.321</b>  | <b>0.307</b> |      | <b>0.3401</b> | <b>0.3344</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -16 UNC  | 16 | 0.06250 | 0.01563 | 0.00781 | <u>3A</u> | 0      | 0.375         | 0.3656       | -    | 0.3344        | 0.3311        | 0.3005        |
| Int. |                        | 16 | 0.06250 | 0.01563 | 0.00781 | <u>3B</u> |        | <b>0.3182</b> | <b>0.307</b> |      | <b>0.3387</b> | <b>0.3344</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -18 UNS  | 18 | 0.05556 | 0.01389 | 0.00694 | <u>2A</u> | 0.0013 | 0.3737        | 0.365        | -    | 0.3376        | 0.3333        | 0.3076        |
| Int. |                        | 18 | 0.05556 | 0.01389 | 0.00694 | <u>2B</u> |        | <b>0.328</b>  | <b>0.315</b> |      | <b>0.3445</b> | <b>0.3389</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -20 UN   | 20 | 0.05000 | 0.01250 | 0.00625 | <u>2A</u> | 0.0012 | 0.3738        | 0.3657       | -    | 0.3413        | 0.3372        | 0.3143        |
| Int. |                        | 20 | 0.05000 | 0.01250 | 0.00625 | <u>2B</u> |        | <b>0.332</b>  | <b>0.321</b> |      | <b>0.3479</b> | <b>0.3425</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -20 UN   | 20 | 0.05000 | 0.01250 | 0.00625 | <u>3A</u> | 0      | 0.375         | 0.3669       | -    | 0.3425        | 0.3394        | 0.3155        |
| Int. |                        | 20 | 0.05000 | 0.01250 | 0.00625 | <u>3B</u> |        | <b>0.3297</b> | <b>0.321</b> |      | <b>0.3465</b> | <b>0.3425</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -24 UNF  | 24 | 0.04167 | 0.01042 | 0.00521 | <u>1A</u> | 0.0011 | 0.3739        | 0.3631       | -    | 0.3468        | 0.3411        | 0.3243        |
| Int. |                        | 24 | 0.04167 | 0.01042 | 0.00521 | <u>1B</u> |        | <b>0.34</b>   | <b>0.33</b>  |      | <b>0.3553</b> | <b>0.3479</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -24 UNF  | 24 | 0.04167 | 0.01042 | 0.00521 | <u>2A</u> | 0.0011 | 0.3739        | 0.3667       | -    | 0.3468        | 0.343         | 0.3243        |
| Int. |                        | 24 | 0.04167 | 0.01042 | 0.00521 | <u>2B</u> |        | <b>0.34</b>   | <b>0.33</b>  |      | <b>0.3528</b> | <b>0.3479</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -24 UNF  | 24 | 0.04167 | 0.01042 | 0.00521 | <u>3A</u> | 0      | 0.375         | 0.3678       | -    | 0.3479        | 0.345         | 0.3254        |
| Int. |                        | 24 | 0.04167 | 0.01042 | 0.00521 | <u>3B</u> |        | <b>0.3372</b> | <b>0.33</b>  |      | <b>0.3516</b> | <b>0.3479</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -27 UNS  | 27 | 0.03704 | 0.00926 | 0.00463 | <u>2A</u> | 0.0011 | 0.3739        | 0.3672       | -    | 0.3498        | 0.3462        | 0.3298        |
| Int. |                        | 27 | 0.03704 | 0.00926 | 0.00463 | <u>2B</u> |        | <b>0.344</b>  | <b>0.335</b> |      | <b>0.3556</b> | <b>0.3509</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -28 UN   | 28 | 0.03571 | 0.00893 | 0.00446 | <u>2A</u> | 0.0011 | 0.3739        | 0.3674       | -    | 0.3507        | 0.3471        | 0.3313        |
| Int. |                        | 28 | 0.03571 | 0.00893 | 0.00446 | <u>2B</u> |        | <b>0.345</b>  | <b>0.336</b> |      | <b>0.3564</b> | <b>0.3518</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -28 UN   | 28 | 0.03571 | 0.00893 | 0.00446 | <u>3A</u> | 0      | 0.375         | 0.3685       | -    | 0.3518        | 0.3491        | 0.3324        |
| Int. |                        | 28 | 0.03571 | 0.00893 | 0.00446 | <u>3B</u> |        | <b>0.3426</b> | <b>0.336</b> |      | <b>0.3553</b> | <b>0.3518</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -32 UNEF | 32 | 0.03125 | 0.00781 | 0.00391 | <u>2A</u> | 0.001  | 0.374         | 0.368        | -    | 0.3537        | 0.3503        | 0.3368        |
| Int. |                        | 32 | 0.03125 | 0.00781 | 0.00391 | <u>2B</u> |        | <b>0.349</b>  | <b>0.341</b> |      | <b>0.3591</b> | <b>0.3547</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -32 UNEF | 32 | 0.03125 | 0.00781 | 0.00391 | <u>3A</u> | 0      | 0.375         | 0.369        | -    | 0.3547        | 0.3522        | 0.3378        |
| Int. |                        | 32 | 0.03125 | 0.00781 | 0.00391 | <u>3B</u> |        | <b>0.3469</b> | <b>0.341</b> |      | <b>0.358</b>  | <b>0.3547</b> | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -36 UNS  | 36 | 0.02778 | 0.00694 | 0.00347 | <u>2A</u> | 0.001  | 0.374         | 0.3685       | -    | 0.356         | 0.3528        | 0.3409        |
| Int. |                        | 36 | 0.02778 | 0.00694 | 0.00347 | <u>2B</u> |        | <b>0.352</b>  | <b>0.345</b> |      | <b>0.3612</b> | <b>0.357</b>  | <b>0.375</b>  |
| Ext. | $\frac{3}{8}$ -40 UNS  | 40 | 0.02500 | 0.00625 | 0.00313 | <u>2A</u> | 0.0009 | 0.3741        | 0.369        | -    | 0.3579        | 0.3548        | 0.3443        |
| Int. |                        | 40 | 0.02500 | 0.00625 | 0.00313 | <u>2B</u> |        | <b>0.354</b>  | <b>0.348</b> |      | <b>0.3628</b> | <b>0.3588</b> | <b>0.375</b>  |
| Ext. | 0.390—27 UNS           | 27 | 0.03704 | 0.00926 | 0.00463 | <u>2A</u> | 0.0011 | 0.3889        | 0.3822       | -    | 0.3648        | 0.3612        | 0.3448        |
| Int. |                        | 27 | 0.03704 | 0.00926 | 0.00463 | <u>2B</u> |        | <b>0.359</b>  | <b>0.35</b>  |      | <b>0.3706</b> | <b>0.3659</b> | <b>0.39</b>   |
| Ext. | $\frac{7}{16}$ -14 UNC | 14 | 0.07143 | 0.01786 | 0.00893 | <u>1A</u> | 0.0014 | 0.4361        | 0.4206       | -    | 0.3897        | 0.3826        | 0.3511        |
| Int. |                        | 14 | 0.07143 | 0.01786 | 0.00893 | <u>1B</u> |        | <b>0.376</b>  | <b>0.36</b>  |      | <b>0.4003</b> | <b>0.3911</b> | <b>0.4375</b> |

|      |              |    |         |         |         |           |        |               |              |       |               |               |               |
|------|--------------|----|---------|---------|---------|-----------|--------|---------------|--------------|-------|---------------|---------------|---------------|
| Ext. | 7/16-14 UNC  | 14 | 0.07143 | 0.01786 | 0.00893 | <u>2A</u> | 0.0014 | 0.4361        | 0.4258       | 0.421 | 0.3897        | 0.385         | 0.3511        |
| Int. |              | 14 | 0.07143 | 0.01786 | 0.00893 | <u>2B</u> |        | <b>0.376</b>  | <b>0.36</b>  |       | <b>0.3972</b> | <b>0.3911</b> | <b>0.4375</b> |
| Ext. | 7/16-14 UNC  | 14 | 0.07143 | 0.01786 | 0.00893 | <u>3A</u> | 0      | 0.4375        | 1.4272       | -     | 0.3911        | 0.3876        | 0.3525        |
| Int. |              | 14 | 0.07143 | 0.01786 | 0.00893 | <u>3B</u> |        | <b>0.3717</b> | <b>0.36</b>  |       | <b>0.3957</b> | <b>0.3911</b> | <b>0.4375</b> |
| Ext. | 7/16-16 UN   | 16 | 0.06250 | 0.01563 | 0.00781 | <u>2A</u> | 0.0014 | 0.4361        | 0.4267       | -     | 0.3955        | 0.3909        | 0.3616        |
| Int. |              | 16 | 0.06250 | 0.01563 | 0.00781 | <u>2B</u> |        | <b>0.384</b>  | <b>0.37</b>  |       | <b>0.4028</b> | <b>0.3969</b> | <b>0.4375</b> |
| Ext. | 7/16-16 UN   | 16 | 0.06250 | 0.01563 | 0.00781 | <u>3A</u> | 0      | 0.4375        | 0.4281       | -     | 0.3969        | 0.3935        | 0.363         |
| Int. |              | 16 | 0.06250 | 0.01563 | 0.00781 | <u>3B</u> |        | <b>0.38</b>   | <b>0.37</b>  |       | <b>0.4014</b> | <b>0.3969</b> | <b>0.4375</b> |
| Ext. | 7/16-18 UNS  | 18 | 0.05556 | 0.01389 | 0.00694 | <u>2A</u> | 0.0013 | 0.4362        | 0.4275       | -     | 0.4001        | 0.3958        | 0.3701        |
| Int. |              | 18 | 0.05556 | 0.01389 | 0.00694 | <u>2B</u> |        | <b>0.39</b>   | <b>0.377</b> |       | <b>0.407</b>  | <b>0.4014</b> | <b>0.4375</b> |
| Ext. | 7/16-20 UNF  | 20 | 0.05000 | 0.01250 | 0.00625 | <u>1A</u> | 0.0013 | 0.4362        | 0.424        | -     | 0.4037        | 0.3975        | 0.3767        |
| Int. |              | 20 | 0.05000 | 0.01250 | 0.00625 | <u>1B</u> |        | <b>0.395</b>  | <b>0.383</b> |       | <b>0.4131</b> | <b>0.405</b>  | <b>0.4375</b> |
| Ext. | 7/16-20 UNF  | 20 | 0.05000 | 0.01250 | 0.00625 | <u>2A</u> | 0.0013 | 0.4362        | 0.4281       | -     | 0.4037        | 0.3995        | 0.3767        |
| Int. |              | 20 | 0.05000 | 0.01250 | 0.00625 | <u>2B</u> |        | <b>0.395</b>  | <b>0.383</b> |       | <b>0.4104</b> | <b>0.405</b>  | <b>0.4375</b> |
| Ext. | 7/16-20 UNF  | 20 | 0.05000 | 0.01250 | 0.00625 | <u>3A</u> | 0      | 0.4375        | 0.4294       | -     | 0.405         | 0.4019        | 0.378         |
| Int. |              | 20 | 0.05000 | 0.01250 | 0.00625 | <u>3B</u> |        | <b>0.3916</b> | <b>0.383</b> |       | <b>0.4091</b> | <b>0.405</b>  | <b>0.4375</b> |
| Ext. | 7/16-24 UNS  | 24 | 0.04167 | 0.01042 | 0.00521 | <u>2A</u> | 0.0011 | 0.4364        | 0.4292       | -     | 0.4093        | 0.4055        | 0.3868        |
| Int. |              | 24 | 0.04167 | 0.01042 | 0.00521 | <u>2B</u> |        | <b>0.402</b>  | <b>0.392</b> |       | <b>0.4153</b> | <b>0.4104</b> | <b>0.4375</b> |
| Ext. | 7/16-27 UNS  | 27 | 0.03704 | 0.00926 | 0.00463 | <u>2A</u> | 0.0011 | 0.4364        | 0.4297       | -     | 0.4123        | 0.4087        | 0.3923        |
| Int. |              | 27 | 0.03704 | 0.00926 | 0.00463 | <u>2B</u> |        | <b>0.406</b>  | <b>0.397</b> |       | <b>0.4181</b> | <b>0.4134</b> | <b>0.4375</b> |
| Ext. | 7/16-28 UNEF | 28 | 0.03571 | 0.00893 | 0.00446 | <u>2A</u> | 0.0011 | 0.4364        | 0.4299       | -     | 0.4132        | 0.4096        | 0.3838        |
| Int. |              | 28 | 0.03571 | 0.00893 | 0.00446 | <u>2B</u> |        | <b>0.407</b>  | <b>0.399</b> |       | <b>0.4189</b> | <b>0.4143</b> | <b>0.4375</b> |
| Ext. | 7/16-28 UNEF | 28 | 0.03571 | 0.00893 | 0.00446 | <u>3A</u> | 0      | 0.4375        | 0.431        | -     | 0.4143        | 0.4116        | 0.3949        |
| Int. |              | 28 | 0.03571 | 0.00893 | 0.00446 | <u>3B</u> |        | <b>0.4051</b> | <b>0.399</b> |       | <b>0.4178</b> | <b>0.4143</b> | <b>0.4375</b> |
| Ext. | 7/16-32 UN   | 32 | 0.03125 | 0.00781 | 0.00391 | <u>2A</u> | 0.001  | 0.4365        | 0.4305       | -     | 0.4162        | 0.4128        | 0.3993        |
| Int. |              | 32 | 0.03125 | 0.00781 | 0.00391 | <u>2B</u> |        | <b>0.411</b>  | <b>0.404</b> |       | <b>0.4216</b> | <b>0.4172</b> | <b>0.4375</b> |
| Ext. | 7/16-32 UN   | 32 | 0.03125 | 0.00781 | 0.00391 | <u>3A</u> | 0      | 0.4375        | 0.4315       | -     | 0.4172        | 0.4147        | 0.4003        |
| Int. |              | 32 | 0.03125 | 0.00781 | 0.00391 | <u>3B</u> |        | <b>0.4094</b> | <b>0.404</b> |       | <b>0.4205</b> | <b>0.4172</b> | <b>0.4375</b> |
| Ext. | 1/2-12 UNS   | 12 | 0.08333 | 0.02083 | 0.01042 | <u>2A</u> | 0.0016 | 0.4984        | 0.487        | -     | 0.4443        | 0.4389        | 0.3992        |
| Int. |              | 12 | 0.08333 | 0.02083 | 0.01042 | <u>2B</u> |        | <b>0.428</b>  | <b>0.41</b>  |       | <b>0.4529</b> | <b>0.4459</b> | <b>0.5</b>    |
| Ext. | 1/2-12 UNS   | 12 | 0.08333 | 0.02083 | 0.01042 | <u>3A</u> | 0      | 0.5           | 0.4886       | -     | 0.4459        | 0.4419        | 0.4008        |
| Int. |              | 12 | 0.08333 | 0.02083 | 0.01042 | <u>3B</u> |        | <b>0.4223</b> | <b>0.41</b>  |       | <b>0.4511</b> | <b>0.4459</b> | <b>0.5</b>    |
| Ext. | 1/2-13 UNC   | 13 | 0.07692 | 0.01923 | 0.00962 | <u>1A</u> | 0.0015 | 0.4985        | 0.4822       | -     | 0.4485        | 0.4411        | 0.4069        |
| Int. |              | 13 | 0.07692 | 0.01923 | 0.00962 | <u>1B</u> |        | <b>0.434</b>  | <b>0.417</b> |       | <b>0.4597</b> | <b>0.45</b>   | <b>0.5</b>    |
| Ext. | 1/2-13 UNC   | 13 | 0.07692 | 0.01923 | 0.00962 | <u>2A</u> | 0.0015 | 0.4985        | 0.4876       | 0.482 | 0.4485        | 0.4435        | 0.4069        |
| Int. |              | 13 | 0.07692 | 0.01923 | 0.00962 | <u>2B</u> |        | <b>0.434</b>  | <b>0.417</b> |       | <b>0.4565</b> | <b>0.45</b>   | <b>0.5</b>    |
| Ext. | 1/2-13 UNC   | 13 | 0.07692 | 0.01923 | 0.00962 | <u>3A</u> | 0      | 0.5           | 0.4891       | -     | 0.45          | 0.4463        | 0.4084        |



|      |                                       |    |         |         |         |           |        |               |              |   |               |               |               |
|------|---------------------------------------|----|---------|---------|---------|-----------|--------|---------------|--------------|---|---------------|---------------|---------------|
| Ext. | <sup>9</sup> / <sub>16</sub> -16 UN   | 16 | 0.06250 | 0.01563 | 0.00781 | <u>3A</u> | 0      | 0.5625        | 0.5531       | - | 0.5219        | 0.5184        | 0.488         |
| Int. |                                       | 16 | 0.06250 | 0.01563 | 0.00781 | <u>3B</u> |        | <b>0.504</b>  | <b>0.495</b> |   | <b>0.5265</b> | <b>0.5219</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -18 UNF  | 18 | 0.05556 | 0.01389 | 0.00694 | <u>1A</u> | 0.0014 | 0.5611        | 0.548        | - | 0.525         | 0.5182        | 0.495         |
| Int. |                                       | 18 | 0.05556 | 0.01389 | 0.00694 | <u>1B</u> |        | <b>0.515</b>  | <b>0.502</b> |   | <b>0.5353</b> | <b>0.5264</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -18 UNF  | 18 | 0.05556 | 0.01389 | 0.00694 | <u>2A</u> | 0.0014 | 0.5611        | 0.5524       | - | 0.525         | 0.5205        | 0.495         |
| Int. |                                       | 18 | 0.05556 | 0.01389 | 0.00694 | <u>2B</u> |        | <b>0.515</b>  | <b>0.502</b> |   | <b>0.5323</b> | <b>0.5264</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -18 UNF  | 18 | 0.05556 | 0.01389 | 0.00694 | <u>3A</u> | 0      | 0.5625        | 0.5538       | - | 0.5264        | 0.523         | 0.4964        |
| Int. |                                       | 18 | 0.05556 | 0.01389 | 0.00694 | <u>3B</u> |        | <b>0.5106</b> | <b>0.502</b> |   | <b>0.5308</b> | <b>0.5264</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -20 UN   | 20 | 0.05000 | 0.01250 | 0.00625 | <u>2A</u> | 0.0013 | 0.5612        | 0.5531       | - | 0.5287        | 0.5245        | 0.5017        |
| Int. |                                       | 20 | 0.05000 | 0.01250 | 0.00625 | <u>2B</u> |        | <b>0.52</b>   | <b>0.508</b> |   | <b>0.5355</b> | <b>0.53</b>   | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -20 UN   | 20 | 0.05000 | 0.01250 | 0.00625 | <u>3A</u> | 0      | 0.5625        | 0.5544       | - | 0.53          | 0.5268        | 0.503         |
| Int. |                                       | 20 | 0.05000 | 0.01250 | 0.00625 | <u>3B</u> |        | <b>0.5162</b> | <b>0.508</b> |   | <b>0.5341</b> | <b>0.53</b>   | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -24 UNEF | 24 | 0.04167 | 0.01042 | 0.00521 | <u>2A</u> | 0.0012 | 0.5613        | 0.5541       | - | 0.5342        | 0.5303        | 0.5117        |
| Int. |                                       | 24 | 0.04167 | 0.01042 | 0.00521 | <u>2B</u> |        | <b>0.527</b>  | <b>0.517</b> |   | <b>0.5405</b> | <b>0.5354</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -24 UNEF | 24 | 0.04167 | 0.01042 | 0.00521 | <u>3A</u> | 0      | 0.5625        | 0.5553       | - | 0.5354        | 0.5325        | 0.5129        |
| Int. |                                       | 24 | 0.04167 | 0.01042 | 0.00521 | <u>3B</u> |        | <b>0.5244</b> | <b>0.517</b> |   | <b>0.5392</b> | <b>0.5354</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -27 UNS  | 27 | 0.03704 | 0.00926 | 0.00463 | <u>2A</u> | 0.0011 | 0.5614        | 0.5547       | - | 0.5373        | 0.5336        | 0.5173        |
| Int. |                                       | 27 | 0.03704 | 0.00926 | 0.00463 | <u>2B</u> |        | <b>0.531</b>  | <b>0.522</b> |   | <b>0.5432</b> | <b>0.5384</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -28 UN   | 28 | 0.03571 | 0.00893 | 0.00446 | <u>2A</u> | 0.0011 | 0.5614        | 0.5549       | - | 0.5382        | 0.5345        | 0.5188        |
| Int. |                                       | 28 | 0.03571 | 0.00893 | 0.00446 | <u>2B</u> |        | <b>0.532</b>  | <b>0.524</b> |   | <b>0.5441</b> | <b>0.5393</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -28 UN   | 28 | 0.03571 | 0.00893 | 0.00446 | <u>3A</u> | 0      | 0.5625        | 0.556        | - | 0.5393        | 0.5365        | 0.5199        |
| Int. |                                       | 28 | 0.03571 | 0.00893 | 0.00446 | <u>3B</u> |        | <b>0.5301</b> | <b>0.524</b> |   | <b>0.5429</b> | <b>0.5393</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -32 UN   | 32 | 0.03125 | 0.00781 | 0.00391 | <u>2A</u> | 0.001  | 0.5615        | 0.5555       | - | 0.5412        | 0.5377        | 0.5243        |
| Int. |                                       | 32 | 0.03125 | 0.00781 | 0.00391 | <u>2B</u> |        | <b>0.536</b>  | <b>0.529</b> |   | <b>0.5467</b> | <b>0.5422</b> | <b>0.5625</b> |
| Ext. | <sup>9</sup> / <sub>16</sub> -32 UN   | 32 | 0.03125 | 0.00781 | 0.00391 | <u>3A</u> | 0      | 0.5625        | 0.5565       | - | 0.5422        | 0.5396        | 0.5253        |
| Int. |                                       | 32 | 0.03125 | 0.00781 | 0.00391 | <u>3B</u> |        | <b>0.5344</b> | <b>0.529</b> |   | <b>0.5456</b> | <b>0.5422</b> | <b>0.5625</b> |

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