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# STOCK LIST

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SMI-PRO-BROC-SL01. Revision 1. March 2017.

## **Our stock selection includes:**

|             |             |
|-------------|-------------|
| <b>C360</b> | <b>C863</b> |
| <b>C464</b> | <b>C932</b> |
| <b>C903</b> | <b>C954</b> |
| <b>C905</b> | <b>C955</b> |
| <b>C907</b> |             |

## **Continuous Casting to: 16"+ maximum diameter**

**(Tube & Solid Round Bar)**

## **4" x 16" maximum rectangle dimension**

**(Rectangle Bar & Profiles)**

**Other alloys and custom sizes available upon request.**

**This information in this booklet is provided for reference only.**

**Sizes, weights, and content remain subject to change at any time.**

**REV: 4    March 8, 2024**



**PLANT 1: 1668 Frost Rd; Streetsboro, OH 44241 USA**  
**PLANT 2: 7071 Peck Rd; Ravenna, OH 44266 USA**  
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## CDA 93200 Tube & Solid Round Bar Stock Allowance

| <i>Finished Outside Diameter</i> | <i>ID</i>                  | <i>OD</i>            |
|----------------------------------|----------------------------|----------------------|
| Up to 1.999" inclusive.....      | -0.0190" to -0.0640" ..... | +0.0290" to +0.0390" |
| 2" to 3.999" inclusive.....      | -0.0190" to -0.0640" ..... | +0.0340" to +0.0440" |
| 4" to 5" inclusive.....          | -0.0470" to -0.1090" ..... | +0.0550" to +0.0710" |
| 5" to 9" inclusive.....          | -0.0620" to -0.1580" ..... | +0.0780" to +0.1100" |
| 9" to 12" inclusive.....         | -0.0780" to -0.1820" ..... | +0.0940" to +0.1340" |
| 12" to 16" inclusive.....        | -0.1020" to -0.2140" ..... | +0.1180" to +0.1660" |

## CDA 93200 Rectangle Bar Stock Allowance

| <i>Finished Width</i>        | <i>Thickness</i>         | <i>Width</i>       |
|------------------------------|--------------------------|--------------------|
| Up to 3.999" inclusive.....  | +0.047" to +0.079" ..... | +0.047" to +0.079" |
| Over 4" to 5" inclusive..... | +0.078" to +0.110" ..... | +0.078" to +0.110" |
| Over 5.001" .....            | +0.109" to +0.141" ..... | +0.109" to +0.141" |

## CDA 95400, C95500, C95900 Tube & Solid Round Bar Stock Allowance

| <i>Finished Outside Diameter</i> | <i>ID</i>                  | <i>OD</i>            |
|----------------------------------|----------------------------|----------------------|
| Up to 3" inclusive.....          | -0.0505" to -0.0955" ..... | +0.0525" to +0.0725" |
| 3" to 4 1/2" inclusive.....      | -0.0900" to -0.1450" ..... | +0.0790" to +0.1090" |
| 4 1/2" to 5 1/2" inclusive.....  | -0.1000" to -0.1650" ..... | +0.1050" to +0.1450" |
| 5 1/2" to 9" inclusive.....      | -0.1350" to -0.2100" ..... | +0.1630" to +0.2130" |

## CDA 95400 Rectangle Bar Stock Allowance

| <i>Finished Width</i>             | <i>Thickness</i>         | <i>Width</i>       |
|-----------------------------------|--------------------------|--------------------|
| Up to 3" inclusive.....           | +0.067" to +0.107" ..... | +0.043" to +0.083" |
| Over 3" to 5 1/2" inclusive.....  | +0.067" to +0.107" ..... | +0.043" to +0.083" |
| Over 5 1/2" to 12" inclusive..... | +0.087" to +0.127" ..... | +0.063" to +0.113" |
| Over 12".....                     | +0.163" to +0.263" ..... | +0.125" to +0.225" |

## CDA 95900 Rectangle Bar Stock Allowance

| <i>Finished Width</i>                | <i>Thickness</i>         | <i>Width</i>      |
|--------------------------------------|--------------------------|-------------------|
| Up to 5 1/2" inclusive.....          | +0.100" to +0.130" ..... | +0.113" to +0.163 |
| Over 5 1/2" to 9 1/2" inclusive..... | +0.100" to +0.130" ..... | +0.113" to +0.163 |
| Over 9 1/2" .....                    | +0.100" to +0.130" ..... | +0.113" to +0.163 |



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# STOCK LIST

## C-360 Solid Round\*

| Diameter<br>(inches) | lbs per 144"<br>length |
|----------------------|------------------------|
| 1/4"                 | 2                      |
| 5/16"                | 3                      |
| 3/8"                 | 5                      |
| 7/16"                | 7                      |
| 1/2"                 | 9                      |
| 9/16"                | 11                     |
| 5/8"                 | 14                     |
| 3/4"                 | 20                     |
| 7/8"                 | 27                     |
| 1"                   | 35                     |
| 1-1/8"               | 44                     |
| 1-1/4"               | 54                     |
| 1-3/8"               | 66                     |
| 1-1/2"               | 78                     |
| 1-5/8"               | 92                     |
| 1-3/4"               | 106                    |
| 2"                   | 139                    |
| 2-1/4"               | 176                    |
| 2-3/8"               | 196                    |
| 2-1/2"               | 217                    |
| 2-3/4"               | 262                    |
| 3"                   | 312                    |
| 3-1/2"               | 425                    |
| 3-3/4"               | 488                    |
| 4"                   | 555                    |
| 4-1/2"               | 702                    |
| 5"                   | 868                    |
| 5-1/2"               | 1,050                  |
| 6"                   | 1,249                  |
| 6-1/2"               | 1,486                  |
| 7"                   | 1,732                  |
| 8"                   | 2,248                  |
| 9"                   | 2,789                  |
| 10"                  | 3,510                  |

## C-464 Solid Round\*

| Diameter<br>(inches) | lbs per 144"<br>length |
|----------------------|------------------------|
| 1/4"                 | 2                      |
| 5/16"                | 3                      |
| 3/8"                 | 5                      |
| 7/16"                | 7                      |
| 1/2"                 | 9                      |
| 5/16"                | 11                     |
| 5/8"                 | 13                     |
| 3/4"                 | 19                     |
| 7/8"                 | 26                     |
| 1"                   | 34                     |
| 1-1/8"               | 43                     |
| 1-1/4"               | 54                     |
| 1-3/8"               | 65                     |
| 1-1/2"               | 77                     |
| 1-5/8"               | 91                     |
| 1-3/4"               | 105                    |
| 2"                   | 137                    |
| 2-1/4"               | 174                    |
| 2-3/8"               | 196                    |
| 2-1/2"               | 215                    |
| 2-3/4"               | 260                    |
| 3"                   | 309                    |
| 3-1/4"               | 363                    |
| 3-1/2"               | 421                    |
| 3-3/4"               | 517                    |
| 4"                   | 550                    |
| 4-1/2"               | 696                    |
| 5"                   | 859                    |
| 6"                   | 1,237                  |
| 7"                   | 1,764                  |
| 8"                   | 2,270                  |
| 10"                  | 3,525                  |

\* Sizes over 3-1/2" diameter are cast and turned to ASTM B505-chemistry only. 72" stock length.



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# STOCK LIST

## C-863 Rectangle

| Thick x Width<br>(inches) | lbs per 144"<br>length | Thick x Width<br>(inches) | lbs per 144"<br>length |
|---------------------------|------------------------|---------------------------|------------------------|
| 1/2" x 2"                 | 60                     | 1" x 5                    | 240                    |
| 1/2" x 4"                 | 112                    | 1" x 6"                   | 275                    |
| 1/2" x 5"                 | 132                    | 1" x 8"                   | 375                    |
| 1/2" x 6"                 | 150                    | 1" x 10"                  | 494                    |
| 1/2" x 8"                 | 220                    | 1" x 12"                  | 582                    |
| 3/4" x 3"                 | 119                    | 1-1/2" x 2"               | 143                    |
| 3/4" x 4"                 | 149                    | 1-1/2" x 3"               | 216                    |
| 3/4" x 5"                 | 188                    | 1-1/2" x 4"               | 275                    |
| 3/4" x 6"                 | 221                    | 1-1/2" x 5"               | 350                    |
| 3/4" x 10"                | 376                    | 1-1/2" x 6"               | 418                    |
| 1" x 2"                   | 93                     | 1-1/2" x 8"               | 548                    |
| 1" x 4"                   | 200                    | 2" x 3"                   | 278                    |
|                           |                        | 2" x 6"                   | 556                    |
|                           |                        | 2" x 10"                  | 916                    |
|                           |                        | 2" x 12"                  | 1,095                  |
|                           |                        | 4" x 4"                   | 755                    |

## C-863 Solid Round

| Diameter<br>(inches) | lbs per<br>144"<br>length |
|----------------------|---------------------------|
| 1"                   | 38                        |
| 1-1/2"               | 84                        |
| 2"                   | 140                       |
| 2-1/2"               | 218                       |
| 3"                   | 304                       |
| 3-1/2"               | 413                       |
| 4"                   | 549                       |
| 4-1/2"               | 685                       |
| 5"                   | 841                       |
| 5-1/2"               | 1,008                     |
| 6"                   | 1,236                     |
| 7"                   | 1,626                     |
| 8"                   | 2,134                     |
| 9"                   | 2,680                     |
| 10"                  | 3,297                     |
| 11"                  | 3,982                     |
| 12"                  | 4,726                     |
| 14"                  | 6,500                     |
| 15"                  | 7,398                     |

## C-863 Tube

| ID x OD<br>(inches) | lbs per 144"<br>length | ID x OD<br>(inches) | lbs per 144"<br>length | ID x OD<br>(inches) | lbs per<br>144"<br>length |
|---------------------|------------------------|---------------------|------------------------|---------------------|---------------------------|
| 1" x 2"             | 115                    | 3-1/2" x 5-1/2"     | 645                    | 8" x 10"            | 1,441                     |
| 1" x 2-1/2"         | 193                    | 4" x 5"             | 411                    | 8" x 12"            | 2,881                     |
| 1" x 3"             | 285                    | 4" x 6"             | 725                    | 8-1/2" x 10"        | 1,185                     |
| 1" x 4"             | 512                    | 4" x 7"             | 1,197                  | 8-1/2" x 12"        | 2,625                     |
| 1-1/2" x 3"         | 249                    | 4" x 8"             | 1,639                  | 9" x 10-1/2"        | 1,215                     |
| 1-3/4" x 2-1/4"     | 82                     | 5" x 6"             | 502                    | 9" x 11"            | 1,601                     |
| 2" x 3"             | 197                    | 5" x 7"             | 914                    | 10" x 12"           | 1,761                     |
| 2" x 3-1/2"         | 297                    | 5" x 8"             | 1,362                  | 10" x 14"           | 3,457                     |
| 2" x 4"             | 430                    | 5" x 9"             | 2,001                  | 11" x 13"           | 1,921                     |
| 2" x 5"             | 730                    | 6" x 7"             | 520                    | 11" x 14"           | 2,802                     |
| 2" x 6"             | 1,120                  | 6" x 8"             | 1,142                  | 11" x 15"           | 3,745                     |
| 2-1/2" x 3-1/2"     | 244                    | 6" x 9"             | 1,681                  | 12" x 14"           | 2,082                     |
| 2-1/2" x 4"         | 356                    | 6" x 10"            | 2,305                  | 12" x 15"           | 3,026                     |
| 3" x 4"             | 278                    | 6" x 12"            | 3,708                  | 13" x 15"           | 2,242                     |
| 3" x 5"             | 574                    | 7" x 8"             | 601                    | 13" x 16"           | 3,250                     |
| 3" x 6"             | 937                    | 7" x 9"             | 1,209                  | 14" x 16"           | 2,350                     |
| 3-1/2" x 4-1/4"     | 281                    | 7" x 10"            | 1,905                  |                     |                           |
| 3-1/2" x 4-1/2"     | 367                    | 7-1/2" x 10-1/2"    | 2,017                  |                     |                           |
|                     |                        | 8" x 9"             | 817                    |                     |                           |

# STOCK LIST

## C-903 Solid Round

| Diameter<br>(inches) | lbs per 144"<br>length |
|----------------------|------------------------|
| 1"                   | 39                     |
| 2"                   | 151                    |
| 2-1/2"               | 232                    |
| 3"                   | 332                    |
| 3-1/2"               | 455                    |
| 4"                   | 615                    |
| 4-1/2"               | 762                    |
| 5"                   | 938                    |
| 5-1/2"               | 1,140                  |
| 6"                   | 1,356                  |
| 7"                   | 1,830                  |
| 8"                   | 2,380                  |
| 9"                   | 3,000                  |
| 10"                  | 3,694                  |
| 12"                  | 5,297                  |

## C-905 Solid Round

| Diameter<br>(inches) | lbs per 144"<br>length |
|----------------------|------------------------|
| 2"                   | 152                    |
| 2-1/2"               | 246                    |
| 3"                   | 349                    |
| 3-1/2"               | 469                    |
| 4"                   | 606                    |
| 4-1/2"               | 764                    |
| 5"                   | 931                    |
| 5-1/2"               | 1,130                  |
| 6"                   | 1,384                  |
| 7"                   | 1,822                  |
| 7-1/2"               | 2,134                  |
| 8"                   | 2,355                  |
| 9"                   | 2,972                  |
| 10"                  | 3,700                  |
| 12"                  | 5,250                  |

## C-907 Solid Round

| Diameter<br>(inches) | lbs per 144"<br>length |
|----------------------|------------------------|
| 1"                   | 39                     |
| 2"                   | 151                    |
| 2-1/2"               | 235                    |
| 3"                   | 332                    |
| 3-1/2"               | 457                    |
| 4"                   | 615                    |
| 4-1/2"               | 770                    |
| 5"                   | 926                    |
| 5-1/2"               | 1,157                  |
| 6"                   | 1,360                  |
| 7"                   | 1,804                  |
| 8"                   | 2,371                  |
| 9"                   | 2,964                  |
| 10"                  | 3,700                  |
| 12"                  | 5,293                  |

## C-907 Rectangle

| Thick X<br>Width<br>(inches) | lbs per 144"<br>length |
|------------------------------|------------------------|
| 3/4" x 3"                    | 125                    |
| 3/4" x 4"                    | 165                    |
| 3/4" x 6"                    | 245                    |
| 3/4" x 8"                    | 326                    |

## C-907 Rectangle

| Thick X<br>Width<br>(inches) | lbs per 144"<br>length |
|------------------------------|------------------------|
| 1" x 3"                      | 162                    |
| 1" x 4"                      | 214                    |
| 1" x 8"                      | 421                    |

## C-907 Rectangle

| Thick X<br>Width<br>(inches) | lbs per 144"<br>length |
|------------------------------|------------------------|
| 1-1/4" x 4"                  | 262                    |
| 1-1/4" x 6"                  | 390                    |
| 1-1/4" x 8"                  | 770                    |



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# STOCK LIST

## C-932 Rectangle

| Thick x Width<br>(inches) | lbs per 144"<br>length |
|---------------------------|------------------------|
| 1/4" x 1"                 | 22                     |
| 1/4" x 2"                 | 40                     |
| 1/4" x 3"                 | 57                     |
| 1/4" x 4"                 | 68                     |
| 1/4" x 5"                 | 92                     |
| 1/4" x 6"                 | 109                    |
| 1/4" x 8"                 | 141                    |
| 1/4" x 10"                | 179                    |
| 1/4" x 12"                | 219                    |
| 3/8" x 1"                 | 29                     |
| 3/8" x 2"                 | 53                     |
| 3/8" x 3"                 | 76                     |
| 3/8" x 4"                 | 92                     |
| 3/8" x 5"                 | 122                    |
| 3/8" x 6"                 | 146                    |
| 3/8" x 8"                 | 187                    |
| 3/8" x 12"                | 265                    |
| 1/2" x 1"                 | 33                     |
| 1/2" x 2"                 | 63                     |
| 1/2" x 3"                 | 93                     |
| 1/2" x 4"                 | 116                    |
| 1/2" x 5"                 | 153                    |
| 1/2" x 6"                 | 178                    |
| 1/2" x 8"                 | 240                    |
| 1/2" x 9"                 | 272                    |
| 1/2" x 10"                | 294                    |
| 1/2" x 12"                | 338                    |
| 1/2" x 14"                | 421                    |
| 1/2" x 15"                | 441                    |
| 5/8" x 1"                 | 44                     |
| 5/8" x 2"                 | 79                     |
| 5/8" x 3"                 | 114                    |
| 5/8" x 4"                 | 140                    |
| 5/8" x 5"                 | 183                    |
| 5/8" x 6"                 | 218                    |
| 5/8" x 8"                 | 282                    |
| 5/8" x 10"                | 358                    |
| 5/8" x 12"                | 412                    |

| Thick x Width<br>(inches) | lbs per 144"<br>length |
|---------------------------|------------------------|
| 3/4" x 1"                 | 47                     |
| 3/4" x 2"                 | 89                     |
| 3/4" x 3"                 | 131                    |
| 3/4" x 4"                 | 164                    |
| 3/4" x 5"                 | 214                    |
| 3/4" x 6"                 | 252                    |
| 3/4" x 8"                 | 332                    |
| 3/4" x 12"                | 479                    |
| 3/4" x 14"                | 589                    |
| 1" x 1"                   | 61                     |
| 1" x 2"                   | 103                    |
| 1" x 3"                   | 154                    |
| 1" x 4"                   | 212                    |
| 1" x 5"                   | 275                    |
| 1" x 6"                   | 329                    |
| 1" x 8"                   | 430                    |
| 1" x 9"                   | 489                    |
| 1" x 10"                  | 528                    |
| 1" x 12"                  | 619                    |
| 1" x 14"                  | 757                    |
| 1" x 15"                  | 811                    |
| 1-1/4" x 2"               | 144                    |
| 1-1/4" x 3"               | 208                    |
| 1-1/4" x 4"               | 260                    |
| 1-1/4" x 5"               | 336                    |
| 1-1/4" x 6"               | 400                    |
| 1-1/4" x 8"               | 523                    |
| 1-1/4" x 12"              | 778                    |
| 1-1/2" x 2"               | 170                    |
| 1-1/2" x 3"               | 246                    |
| 1-1/2" x 4"               | 308                    |
| 1-1/2" x 6"               | 472                    |
| 1-1/2" x 8"               | 622                    |
| 1-1/2" x 12"              | 901                    |
| 1-3/4" x 4"               | 356                    |
| 1-3/4" x 8"               | 718                    |

| Thick x Width<br>(inches) | lbs per 144"<br>length |
|---------------------------|------------------------|
| 1-3/4" x 12"              | 1,077                  |
| 2" x 2"                   | 223                    |
| 2" x 4"                   | 404                    |
| 2" x 5"                   | 519                    |
| 2" x 8"                   | 812                    |
| 2" x 12"                  | 1,180                  |
| 2-1/2" x 2-1/2"           | 328                    |
| 2-1/2" x 4"               | 520                    |
| 2-1/2" x 8"               | 1,010                  |
| 2-1/2" x 12"              | 1,462                  |
| 3" x 3"                   | 448                    |
| 3" x 3-1/2"               | 536                    |
| 3" x 6"                   | 924                    |
| 3" x 8"                   | 1,178                  |
| 3" x 12"                  | 1,745                  |
| 4" x 4"                   | 782                    |
| 4" x 12"                  | 2,324                  |
| 5" x 5"                   | 1,210                  |
| 6" x 6"                   | 1,780                  |
| 8" x 8"                   | 3,061                  |

# STOCK LIST

## C-932 Solid Round

| Diameter<br>(inches) | lbs per 105"<br>length |
|----------------------|------------------------|
| 1/2"                 | 9                      |
| 5/8"                 | 13                     |
| 3/4"                 | 17                     |
| 7/8"                 | 23                     |
| 1"                   | 29                     |
| 1-1/8"               | 32                     |
| 1-1/4"               | 45                     |
| 1-3/8"               | 55                     |
| 1-1/2"               | 65                     |
| 1-5/8"               | 75                     |
| 1-3/4"               | 87                     |
| 2"                   | 113                    |
| 2-1/4"               | 142                    |
| 2-1/2"               | 175                    |
| 2-3/4"               | 211                    |
| 3"                   | 251                    |
| 3-1/4"               | 294                    |
| 3-1/2"               | 340                    |
| 3-3/4"               | 389                    |
| 4"                   | 442                    |
| 4-1/4"               | 504                    |
| 4-1/2"               | 565                    |
| 5"                   | 627                    |
| 5-1/2"               | 842                    |
| 6"                   | 999                    |
| 6-1/2"               | 1,168                  |
| 7"                   | 1,353                  |
| 7-1/2"               | 1,552                  |
| 8"                   | 1,756                  |
| 9"                   | 2,215                  |
| 10"                  | 2,724                  |
| 11"                  | 3,302                  |
| 12"                  | 3,970                  |
| 13"                  | 4,627                  |
| 14"                  | 5,394                  |
| 15"                  | 6,175                  |
| 16"                  | 7,012                  |

## C-932 Tube

| ID x OD<br>(inches) | lbs per 105"<br>length | ID x OD<br>(inches) | lbs per 105"<br>length | ID x OD<br>(inches) | lbs per 105"<br>length |
|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|
| 1/2" x 1"           | 24                     | 1-1/2" x 1-3/4"     | 29                     | 2" x 5"             | 591                    |
| 1/2" x 1-1/4"       | 40                     | 1-1/2" x 1-7/8"     | 43                     | 2" x 5-1/2"         | 747                    |
| 1/2" x 1-1/2"       | 59                     | 1-1/2" x 2"         | 55                     | 2" x 6"             | 904                    |
| 1/2" x 2"           | 107                    | 1-1/2" x 2-1/4"     | 85                     | 2-1/4" x 2-3/4"     | 81                     |
| 5/8" x 1"           | 20                     | 1-1/2" x 2-1/2"     | 118                    | 2-1/4" x 3"         | 123                    |
| 3/4" x 1"           | 16                     | 1-1/2" x 2-3/4"     | 154                    | 2-1/4" x 3-1/4"     | 163                    |
| 3/4" x 1-1/4"       | 32                     | 1-1/2" x 3"         | 194                    | 2-1/4" x 3-1/2"     | 211                    |
| 3/4" x 1-1/2"       | 51                     | 1-1/2" x 3-1/4"     | 237                    | 2-1/4" x 3-3/4"     | 262                    |
| 3/4" x 1-3/4"       | 73                     | 1-1/2" x 3-1/2"     | 283                    | 2-1/2" x 3"         | 92                     |
| 3/4" x 2"           | 99                     | 1-1/2" x 4"         | 397                    | 2-1/2" x 3-1/4"     | 135                    |
| 3/4" x 2-1/4"       | 129                    | 1-1/2" x 4-1/2"     | 514                    | 2-1/2" x 3-1/2"     | 182                    |
| 3/4" x 2-1/2"       | 162                    | 1-5/8" x 2"         | 45                     | 2-1/2" x 3-3/4"     | 227                    |
| 3/4" x 2-3/4"       | 196                    | 1-3/4" x 2"         | 34                     | 2-1/2" x 4"         | 291                    |
| 3/4" x 3-1/2"       | 328                    | 1-3/4" x 2-1/4"     | 63                     | 2-1/2" x 4-1/2"     | 410                    |
| 7/8" x 1-3/8"       | 36                     | 1-3/4" x 2-3/8"     | 82                     | 2-1/2" x 5"         | 538                    |
| 7/8" x 1-1/2"       | 46                     | 1-3/4" x 2-1/2"     | 96                     | 2-1/2" x 5-1/2"     | 692                    |
| 1" x 1-1/4"         | 20                     | 1-3/4" x 2-3/4"     | 132                    | 2-1/2" x 6"         | 838                    |
| 1" x 1-3/8"         | 30                     | 1-3/4" x 3"         | 172                    |                     |                        |
| 1" x 1-1/2"         | 40                     | 1-3/4" x 3-1/4"     | 215                    |                     |                        |
| 1" x 1-3/4"         | 62                     | 1-3/4" x 3-1/2"     | 261                    |                     |                        |
| 1" x 2"             | 88                     | 1-3/4" x 3-3/4"     | 311                    |                     |                        |
| 1" x 2-1/4"         | 118                    | 1-3/4" x 4"         | 376                    |                     |                        |
| 1" x 2-1/2"         | 150                    | 1-7/8" x 2-1/4"     | 51                     |                     |                        |
| 1" x 2-3/4"         | 187                    | 1-7/8" x 2-3/8"     | 70                     |                     |                        |
| 1" x 3"             | 226                    | 2" x 2-3/8"         | 56                     |                     |                        |
| 1" x 3-1/4"         | 269                    | 2" x 2-1/2"         | 75                     |                     |                        |
| 1" x 3-1/2"         | 316                    | 2" x 2-5/8"         | 92                     |                     |                        |
| 1" x 4"             | 426                    | 2" x 2-3/4"         | 111                    |                     |                        |
| 1-1/8" x 1-1/2"     | 33                     | 2" x 3"             | 152                    |                     |                        |
| 1-1/8" x 1-5/8"     | 46                     | 2" x 3-1/4"         | 192                    |                     |                        |
| 1-1/8" x 2"         | 81                     | 2" x 3-1/2"         | 240                    |                     |                        |
| 1-1/4" x 2-1/4"     | 105                    | 2" x 3-3/4"         | 288                    |                     |                        |
| 1-1/4" x 1-1/2"     | 25                     | 2" x 4"             | 353                    |                     |                        |
| 1-1/4" x 1-5/8"     | 37                     | 2" x 4-1/2"         | 463                    |                     |                        |
| 1-1/4" x 1-3/4"     | 48                     |                     |                        |                     |                        |
| 1-1/4" x 1-7/8"     | 62                     |                     |                        |                     |                        |
| 1-1/4" x 2"         | 74                     |                     |                        |                     |                        |
| 1-1/4" x 2-1/2"     | 136                    |                     |                        |                     |                        |
| 1-1/4" x 3"         | 212                    |                     |                        |                     |                        |
| 1-1/4" x 3-1/4"     | 255                    |                     |                        |                     |                        |
| 1-1/4" x 3-1/2"     | 301                    |                     |                        |                     |                        |
| 1-1/4" x 4"         | 414                    |                     |                        |                     |                        |
| 1-3/8" x 1-5/8"     | 28                     |                     |                        |                     |                        |
| 1-3/8" x 1-3/4"     | 39                     |                     |                        |                     |                        |
| 1-3/8" x 2"         | 65                     |                     |                        |                     |                        |



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# STOCK LIST

## C-932 Tube

| ID x OD<br>(inches) | lbs per 105"<br>length | ID x OD<br>(inches) | lbs per 105"<br>length | ID x OD<br>(inches) | lbs per 105"<br>length |
|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|
| 2-3/4" x 3-1/4"     | 96                     | 4-1/4" x 5-1/2"     | 387                    | 8" x 9"             | 567                    |
| 2-3/4" x 3-1/2"     | 146                    | 4-1/2" x 5"         | 165                    | 8" x 9-1/2"         | 829                    |
| 2-3/4" x 3-3/4"     | 194                    | 4-1/2" x 5-1/2"     | 331                    | 8" x 10"            | 1,094                  |
| 2-3/4" x 4"         | 259                    | 4-1/2" x 6"         | 487                    | 8" x 11"            | 1,664                  |
| 2-3/4" x 4-1/2"     | 381                    | 4-1/2" x 6-1/2"     | 657                    | 8" x 12"            | 2,294                  |
| 2-3/4" x 4-3/4"     | 431                    | 4-1/2" x 7"         | 842                    | 8" x 13"            | 3,026                  |
| 3" x 3-1/2"         | 103                    | 4-3/4" x 5-1/4"     | 196                    | 8-1/2" x 9-1/2"     | 627                    |
| 3" x 3-3/4"         | 157                    | 4-3/4" x 5-3/4"     | 346                    | 8-1/2" x 10"        | 873                    |
| 3" x 4"             | 222                    | 5" x 5-1/2"         | 205                    | 8-1/2" x 10-1/2"    | 1,157                  |
| 3" x 4-1/4"         | 281                    | 5" x 5-3/4"         | 284                    | 9" x 10"            | 661                    |
| 3" x 4-1/2"         | 342                    | 5" x 6"             | 363                    | 9" x 10-1/2"        | 928                    |
| 3" x 4-3/4"         | 395                    | 5" x 6-1/2"         | 535                    | 9" x 11"            | 1,214                  |
| 3" x 5"             | 462                    | 5" x 7"             | 720                    | 9" x 11-1/2"        | 1,518                  |
| 3" x 5-1/2"         | 621                    | 5" x 7-1/2"         | 915                    | 9" x 12"            | 1,836                  |
| 3" x 6"             | 778                    | 5" x 8"             | 1,125                  | 9" x 13"            | 2,571                  |
| 3" x 6-1/2"         | 947                    | 5" x 9"             | 1,585                  | 9-1/2" x 10-1/2"    | 699                    |
| 3" x 7"             | 1,135                  | 5" x 10"            | 2,158                  | 9-1/2" x 11"        | 971                    |
| 3" x 8"             | 1,544                  | 5" x 10-1/2"        | 2,383                  | 9-1/2" x 11-1/2"    | 1,276                  |
| 3-1/4" x 4"         | 181                    | 5-1/2" x 6-1/2"     | 395                    | 10" x 11"           | 742                    |
| 3-1/4" x 4-1/4"     | 238                    | 5-1/2" x 7"         | 579                    | 10" x 11-1/2"       | 1,032                  |
| 3-1/4" x 4-1/2"     | 290                    | 5-1/2" x 7-1/2"     | 778                    | 10" x 12"           | 1,333                  |
| 3-1/4" x 5"         | 420                    | 5-1/2" x 8"         | 990                    | 10" x 13"           | 2,052                  |
| 3-1/2" x 4"         | 133                    | 5-3/4" x 6-3/4"     | 412                    | 10" x 14"           | 2,783                  |
| 3-1/2" x 4-1/4"     | 194                    | 6" x 6-3/4"         | 334                    | 10" x 15"           | 3,585                  |
| 3-1/2" x 4-1/2"     | 255                    | 6" x 7"             | 427                    | 10" x 16"           | 4,419                  |
| 3-1/2" x 4-3/4"     | 310                    | 6" x 7-1/2"         | 625                    | 10-1/2" x 12-1/2"   | 1,511                  |
| 3-1/2" x 5"         | 376                    | 6" x 8"             | 837                    | 11" x 12"           | 800                    |
| 3-1/2" x 5-1/2"     | 539                    | 6" x 8-1/2"         | 1,065                  | 11" x 12-1/2"       | 1,167                  |
| 3-1/2" x 6"         | 696                    | 6" x 9"             | 1,300                  | 11" x 13"           | 1,500                  |
| 3-1/2" x 6-1/2"     | 865                    | 6" x 10"            | 1,834                  | 11" x 14"           | 2,473                  |
| 3-3/4" x 4-1/2"     | 204                    | 6" x 11"            | 2,404                  | 11-1/2" x 13"       | 1,203                  |
| 3-3/4" x 4-3/4"     | 262                    | 6" x 12"            | 3,030                  | 11-1/2" x 13-1/2"   | 1,556                  |
| 3-3/4" x 5-1/2"     | 490                    | 6-1/2" x 7-1/2"     | 460                    | 11-1/2" x 14-1/2"   | 2,322                  |
| 4" x 4-1/2"         | 148                    | 6-1/2" x 8"         | 674                    | 12" x 13-1/2"       | 1,257                  |
| 4" x 4-3/4"         | 211                    | 6-1/2" x 8-1/2"     | 900                    | 12" x 14"           | 1,627                  |
| 4" x 5"             | 277                    | 7" x 8"             | 493                    | 12" x 15"           | 2,409                  |
| 4" x 5-1/4"         | 367                    | 7" x 8-1/2"         | 721                    | 12" x 16"           | 3,272                  |
| 4" x 5-1/2"         | 441                    | 7" x 9"             | 954                    | 12-1/2" x 14"       | 1,296                  |
| 4" x 6"             | 600                    | 7" x 9-1/2"         | 1,224                  | 13" x 14-1/2"       | 1,392                  |
| 4" x 6-1/2"         | 767                    | 7" x 10"            | 1,487                  | 13" x 15"           | 1,744                  |
| 4" x 7"             | 953                    | 7" x 11"            | 2,067                  | 13" x 16"           | 2,702                  |
| 4" x 7-1/2"         | 1,153                  | 7" x 12"            | 2,693                  | 13-1/2" x 15-1/2"   | 1,798                  |
| 4" x 8"             | 1,363                  | 7" x 13"            | 3,399                  | 14" x 15-1/2"       | 1,455                  |
| 4" x 9"             | 1,821                  | 7-1/2" x 8-1/2"     | 530                    | 14" x 16"           | 1,901                  |
| 4-1/4" x 4-3/4"     | 157                    | 7-1/2" x 9"         | 763                    | 15" x 16-1/4"       | 1,455                  |
| 4-1/4" x 5"         | 224                    | 7-1/2" x 9-1/2"     | 1,033                  |                     |                        |
| 4-1/4" x 5-1/4"     | 313                    | 7-1/2" x 10"        | 1,299                  |                     |                        |

# STOCK LIST

## C-954 Rectangle

| Thick x Width<br>(inches) | lbs per 144"<br>length |
|---------------------------|------------------------|
| 1/4" x 1"                 | 15                     |
| 1/4" x 1-1/4"             | 18                     |
| 1/4" x 1-1/2"             | 21                     |
| 1/4" x 2"                 | 28                     |
| 1/4" x 2-1/2"             | 34                     |
| 1/4" x 3"                 | 41                     |
| 1/4" x 3-1/2"             | 46                     |
| 1/4" x 4"                 | 55                     |
| 1/4" x 5"                 | 66                     |
| 1/4" x 6"                 | 87                     |
| 1/4" x 12"                | 162                    |
| 3/8" x 1"                 | 20                     |
| 3/8" x 1-1/2"             | 29                     |
| 3/8" x 3"                 | 38                     |
| 3/8" x 2-1/2"             | 47                     |
| 3/8" x 3"                 | 57                     |
| 3/8" x 3-1/2"             | 64                     |
| 3/8" x 4"                 | 74                     |
| 3/8" x 5"                 | 93                     |
| 3/8" x 6"                 | 115                    |
| 3/8" x 8"                 | 151                    |
| 3/8" x 12"                | 221                    |
| 1/2" x 1/2"               | 14                     |
| 1/2" x 1"                 | 25                     |
| 1/2" x 1-1/2"             | 37                     |
| 1/2" x 2"                 | 48                     |
| 1/2" x 2-1/2"             | 60                     |
| 1/2" x 3"                 | 72                     |
| 1/2" x 3-1/2"             | 83                     |
| 1/2" x 4"                 | 93                     |
| 1/2" x 5"                 | 117                    |
| 1/2" x 6"                 | 145                    |
| 1/2" x 8"                 | 189                    |
| 1/2" x 10"                | 232                    |
| 1/2" x 12"                | 280                    |
| 5/8" x 1"                 | 31                     |
| 5/8" x 1-1/2"             | 45                     |
| 5/8" x 2"                 | 59                     |
| 5/8" x 2-1/2"             | 72                     |
| 5/8" x 3"                 | 86                     |
| 5/8" x 4"                 | 115                    |
| 5/8" x 5"                 | 142                    |
| 5/8" x 6"                 | 174                    |
| 5/8" x 8"                 | 230                    |
| 3/4" x 3/4"               | 27                     |
| 3/4" x 1"                 | 36                     |
| 3/4" x 1-1/2"             | 53                     |

| Thick x Width<br>(inches) | lbs per 144"<br>length |
|---------------------------|------------------------|
| 3/4" x 2"                 | 69                     |
| 3/4" x 2-1/2"             | 85                     |
| 3/4" x 3"                 | 102                    |
| 3/4" x 3-1/2"             | 119                    |
| 3/4" x 4"                 | 134                    |
| 3/4" x 5"                 | 165                    |
| 3/4" x 6"                 | 204                    |
| 3/4" x 8"                 | 269                    |
| 3/4" x 10"                | 346                    |
| 3/4" x 12"                | 391                    |
| 1" x 1"                   | 46                     |
| 1" x 1-1/4"               | 57                     |
| 1" x 1-1/2"               | 67                     |
| 1" x 1-3/4"               | 78                     |
| 1" x 2"                   | 89                     |
| 1" x 2-1/2"               | 110                    |
| 1" x 3"                   | 131                    |
| 1" x 3-1/2"               | 153                    |
| 1" x 4"                   | 174                    |
| 1" x 5"                   | 217                    |
| 1" x 6"                   | 265                    |
| 1" x 7"                   | 303                    |
| 1" x 8"                   | 347                    |
| 1" x 10"                  | 432                    |
| 1" x 12"                  | 507                    |
| 1" x 16"                  | 760                    |
| 1-1/4" x 1-1/4"           | 69                     |
| 1-1/4" x 1-1/2"           | 83                     |
| 1-1/4" x 2"               | 109                    |
| 1-1/4" x 2-1/2"           | 134                    |
| 1-1/4" x 3"               | 162                    |
| 1-1/4" x 3-1/2"           | 188                    |
| 1-1/4" x 4"               | 212                    |
| 1-1/4" x 5"               | 262                    |
| 1-1/4" x 6"               | 303                    |
| 1-1/4" x 8"               | 425                    |
| 1-1/4" x 10"              | 533                    |
| 1-1/2" x 1-1/2"           | 99                     |
| 1-1/2" x 2"               | 129                    |
| 1-1/2" x 2-1/2"           | 160                    |
| 1-1/2" x 3"               | 192                    |
| 1-1/2" x 3-1/2"           | 223                    |
| 1-1/2" x 4"               | 253                    |
| 1-1/2" x 5"               | 315                    |
| 1-1/2" x 6"               | 376                    |
| 1-1/2" x 8"               | 508                    |

| Thick x Width<br>(inches) | lbs per 144"<br>length |
|---------------------------|------------------------|
| 1-1/2" x 12"              | 752                    |
| 1-1/2" x 16"              | 1,078                  |
| 1-3/4" x 1-3/4"           | 131                    |
| 1-3/4" x 2"               | 151                    |
| 1-3/4" x 2-1/2"           | 187                    |
| 1-3/4" x 3"               | 220                    |
| 1-3/4" x 4"               | 293                    |
| 1-3/4" x 5"               | 358                    |
| 1-3/4" x 6"               | 443                    |
| 1-3/4" x 8"               | 585                    |
| 1-3/4" x 10"              | 727                    |
| 2" x 2"                   | 170                    |
| 2" x 2-1/2"               | 211                    |
| 2" x 3"                   | 252                    |
| 2" x 3-1/2"               | 288                    |
| 2" x 4"                   | 333                    |
| 2" x 6"                   | 503                    |
| 2" x 8"                   | 664                    |
| 2" x 12"                  | 984                    |
| 2" x 16"                  | 1,398                  |
| 2-1/2" x 2-1/2"           | 259                    |
| 2-1/2" x 3"               | 314                    |
| 2-1/2" x 4"               | 414                    |
| 2-1/2" x 5"               | 515                    |
| 2-1/2" x 6"               | 624                    |
| 2-1/2" x 12"              | 1,233                  |
| 3" x 3"                   | 373                    |
| 3" x 4"                   | 493                    |
| 3" x 5"                   | 617                    |
| 3" x 6"                   | 741                    |
| 3" x 12"                  | 1,447                  |
| 3-1/2" x 5"               | 726                    |
| 4" x 4"                   | 653                    |
| 4" x 5"                   | 819                    |
| 4" x 6"                   | 1,001                  |
| 4" x 7"                   | 1,339                  |
| 4-1/2" x 6"               | 1,102                  |
| 5" x 5"                   | 1,023                  |
| 6" x 6"                   | 1,463                  |



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# STOCK LIST

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## C-954 Solid Round

| Diameter<br>(inches) | lbs per 144"<br>length |
|----------------------|------------------------|
| 1/2"                 | 10                     |
| 3/4"                 | 21                     |
| 1"                   | 35                     |
| 1-1/4"               | 54                     |
| 1-1/2"               | 76                     |
| 1-3/4"               | 102                    |
| 2"                   | 132                    |
| 2-1/4"               | 166                    |
| 2-1/2"               | 207                    |
| 2-3/4"               | 242                    |
| 3"                   | 294                    |
| 3-1/4"               | 344                    |
| 3-1/2"               | 401                    |
| 3-3/4"               | 456                    |
| 4"                   | 514                    |
| 4-1/4"               | 586                    |
| 4-1/2"               | 658                    |
| 5"                   | 803                    |
| 5-1/2"               | 970                    |
| 6"                   | 1,147                  |
| 6-1/2"               | 1,330                  |
| 7"                   | 1,538                  |
| 8"                   | 2,058                  |
| 9"                   | 2,589                  |
| 10"                  | 3,205                  |
| 11"                  | 3,861                  |
| 12"                  | 4,577                  |
| 13"                  | 5,319                  |
| 14"                  | 6,135                  |
| 15"                  | 7,041                  |
| 16"                  | 8,050                  |



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**WEB: [www.spectrummachine.com](http://www.spectrummachine.com)**

# STOCK LIST

## C-954 Tube

| ID x OD<br>(inches) | lbs per 144"<br>length | ID x OD<br>(inches) | lbs per 144"<br>length | ID x OD<br>(inches) | lbs per 144"<br>length |
|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|
| 3/4" x 1-1/4"       | 40                     | 2-1/2" x 3-3/4"     | 290                    | 6-1/2" x 7-1/2"     | 525                    |
| 3/4" x 1-1/2"       | 63                     | 2-1/2" x 4"         | 350                    | 7" x 8"             | 561                    |
| 3/4" x 1-3/4"       | 90                     | 2-1/2" x 4-1/2"     | 482                    | 7" x 8-1/2"         | 898                    |
| 3/4" x 2"           | 117                    | 2-1/2" x 5"         | 642                    | 7" x 9"             | 1,170                  |
| 1" x 1-1/2"         | 50                     | 2-1/2" x 6"         | 995                    | 7" x 10"            | 1,790                  |
| 1" x 1-3/4"         | 77                     | 2-3/4" x 3-1/4"     | 135                    | 7" x 11"            | 2,444                  |
| 1" x 2"             | 107                    | 2-3/4" x 3-1/2"     | 188                    |                     |                        |
| 1" x 2-1/2"         | 141                    | 2-3/4" x 3-3/4"     | 250                    | 8" x 9"             | 776                    |
| 1" x 2-3/4"         | 180                    | 3" x 3-1/2"         | 146                    | 8" x 9-1/4"         | 919                    |
| 1" x 3"             | 266                    | 3" x 3-3/4"         | 205                    | 8" x 9-1/2"         | 1,065                  |
| 1" x 3-1/2"         | 376                    | 3" x 4"             | 270                    | 8" x 10"            | 1,370                  |
| 1" x 4"             | 497                    |                     |                        | 8" x 11"            | 2,024                  |
| 1-1/4" x 1-3/4"     | 60                     | 3" x 4-1/2"         | 405                    | 8" x 12"            | 2,739                  |
| 1-1/4" x 2"         | 91                     | 3" x 5"             | 563                    | 8-1/2" x 10"        | 1,126                  |
| 1-1/4" x 2-1/4"     | 125                    | 3" x 5-1/2"         | 729                    | 8-1/2" x 10-1/2"    | 1,446                  |
| 1-1/4" x 2-1/2"     | 163                    | 3" x 6"             | 938                    | 9" x 10"            | 868                    |
| 1-1/4" x 2-3/4"     | 200                    | 3" x 7"             | 1,350                  | 9" x 10-1/4"        | 1,025                  |
| 1-1/4" x 3"         | 249                    | 3-1/2" x 4"         | 167                    | 9" x 10-1/2"        | 1,187                  |
| 1-1/4" x 3-1/4"     | 363                    | 3-1/2" x 4-1/4"     | 234                    | 9" x 11"            | 1,522                  |
| 1-1/2" x 2"         | 70                     | 3-1/2" x 4-1/2"     | 306                    | 9" x 12"            | 2,237                  |
| 1-1/2" x 2-1/4"     | 105                    | 3-1/2" x 5"         | 471                    | 9" x 13"            | 3,012                  |
| 1-1/2" x 2-1/2"     | 143                    | 3-1/2" x 5-1/2"     | 634                    | 9" x 14"            | 3,850                  |
| 1-1/2" x 2-3/4"     | 185                    | 3-1/2" x 6"         | 846                    | 9-1/4" x 10-1/2"    | 1,052                  |
| 1-1/2" x 3"         | 231                    | 4" x 4-3/4"         | 284                    | 9-3/4" x 11"        | 1,105                  |
| 1-1/2" x 3-1/4"     | 289                    | 4" x 5"             | 363                    | 10" x 11"           | 959                    |
| 1-1/2" x 3-1/2"     | 344                    | 4" x 5-1/2"         | 529                    | 10" x 11-1/2"       | 1,309                  |
| 1-1/2" x 4-1/2"     | 584                    | 4" x 6"             | 739                    | 10" x 12"           | 1,674                  |
| 1-3/4" x 2-1/4"     | 80                     | 4" x 7"             | 1,144                  | 10" x 13"           | 2,450                  |
| 1-3/4" x 2-1/2"     | 118                    | 4" x 8"             | 1,543                  | 10" x 14"           | 3,286                  |
| 1-3/4" x 2-3/4"     | 161                    | 4" x 9"             | 2,165                  | 10" x 15"           | 4,185                  |
| 1-3/4" x 3"         | 207                    | 4-1/2" x 5-1/4"     | 301                    | 10-1/2" x 12"       | 1,370                  |
| 1-3/4" x 3-1/2"     | 322                    | 4-1/2" x 5-1/2"     | 402                    | 11" x 12"           | 1,050                  |
| 1-3/4" x 4"         | 427                    | 4-1/2" x 6"         | 622                    | 11" x 13"           | 1,826                  |
| 2" x 2-1/2"         | 91                     | 4-1/2" x 6-1/2"     | 783                    | 11" x 14"           | 2,628                  |
| 2" x 2-3/4"         | 132                    | 5" x 6"             | 478                    | 12" x 13-1/2"       | 1,552                  |
| 2" x 3"             | 178                    | 5" x 6-1/2"         | 676                    | 12" x 14"           | 1,978                  |
| 2" x 3-1/2"         | 292                    | 5" x 7"             | 880                    | 12" x 15"           | 3,834                  |
| 2" x 4"             | 413                    | 5" x 8"             | 1,352                  | 12-1/2" x 14-1/2"   | 2,025                  |
| 2" x 4-1/2"         | 542                    | 5" x 9"             | 1,917                  | 13" x 15"           | 2,085                  |
| 2" x 5"             | 708                    | 5" x 10"            | 2,510                  | 13" x 16"           | 3,089                  |
| 2" x 6"             | 1,082                  | 5-1/2" x 6-1/2"     | 516                    | 14" x 16"           | 2,282                  |
| 2-1/4" x 2-3/4"     | 99                     | 5-1/2" x 7-1/2"     | 980                    |                     |                        |
| 2-1/4" x 3"         | 147                    | 6" x 7"             | 561                    |                     |                        |
| 2-1/4" x 3-1/4"     | 210                    | 6" x 8"             | 1,123                  |                     |                        |
| 2-1/4" x 3-1/2"     | 269                    | 6" x 9"             | 1,558                  |                     |                        |
| 2-1/2" x 3"         | 110                    | 6" x 10"            | 2,173                  |                     |                        |
| 2-1/2" x 3-1/4"     | 171                    | 6" x 11"            | 2,828                  |                     |                        |
| 2-1/2" x 3-1/2"     | 232                    | 6" x 12"            | 3,545                  |                     |                        |



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# STOCK LIST

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## C-955 Solid Round

| Diameter<br>(inches) | lbs per 144"<br>length |
|----------------------|------------------------|
| 1"                   | 35                     |
| 1-1/2"               | 76                     |
| 2"                   | 129                    |
| 2-1/2"               | 212                    |
| 3"                   | 301                    |
| 3-1/2"               | 405                    |
| 4"                   | 524                    |
| 4-1/2"               | 660                    |
| 5"                   | 810                    |
| 5-1/2"               | 976                    |
| 6"                   | 1,144                  |
| 7"                   | 1,595                  |
| 8"                   | 2,070                  |
|                      |                        |
|                      |                        |



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# STOCK LIST

| CROSS INDEX                                        |        |     | NOMINAL<br>CHEMICAL COMPOSITION |    |     |    |       | MINIMUM REQUIREMENTS |                |                 |                | MACHINABILITY               |
|----------------------------------------------------|--------|-----|---------------------------------|----|-----|----|-------|----------------------|----------------|-----------------|----------------|-----------------------------|
| High Leaded Tin Bronze<br>High Speeds / Low Speeds | CDA    | SAE | Cu                              | Sn | Pb  | Zn | Other | Tensile<br>(PSI)     | Yield<br>(PSI) | Elongation<br>% | BHN @<br>500kg | Free Cutting<br>Brass = 100 |
|                                                    | C93800 | 67  | 78%                             | 7% | 15% | -  | -     | 25,000               | 16,000         | 5               | 60             | 80                          |
|                                                    | C94100 | -   | 75%                             | 5% | 20% | -  | -     | 25,000               | 17,000         | 7               | 50             | 80                          |
|                                                    | C94300 | -   | 70%                             | 5% | 25% | -  | -     | 21,000               | 15,000         | 7               | 48             | 80                          |

| Leaded Tin Bronze<br>Medium Speeds / Medium Loads | CDA    | SAE | Cu  | Sn  | Pb  | Zn | Other | Tensile<br>(PSI) | Yield<br>(PSI) | Elongation<br>% | BHN @<br>500kg | Free Cutting<br>Brass = 100 |
|---------------------------------------------------|--------|-----|-----|-----|-----|----|-------|------------------|----------------|-----------------|----------------|-----------------------------|
|                                                   | C83600 | 40  | 85% | 5%  | 5%  | 5% | -     | 36,000           | 19,000         | 15              | 60             | 84                          |
|                                                   | C84400 | -   | 81% | 3%  | 7%  | 9% | -     | 30,000           | 15,000         | 16              | 55             | 90                          |
|                                                   | C93200 | 660 | 83% | 7%  | 7%  | 3% | -     | 35,000           | 20,000         | 10              | 65             | 70                          |
|                                                   | C93400 | -   | 84% | 8%  | 8%  | -  | -     | 34,000           | 20,000         | 8               | 60             | 70                          |
|                                                   | C93500 | 66  | 85% | 5%  | 9%  | 1% | -     | 30,000           | 16,000         | 12              | 60             | 70                          |
|                                                   | C93600 | -   | 80% | 7%  | 12% | 1% | -     | 32,000           | 16,000         | 15              | 60             | .80                         |
|                                                   | C93700 | 64  | 80% | 10% | 10% | -  | -     | 35,000           | 20,000         | 6               | 60             | 80                          |

| Tin Bronze<br>High Loads / Low Speeds<br>(most corrosive environments) | CDA    | SAE | Cu  | Sn  | Pb   | Zn   | Ni | Tensile<br>(PSI) | Yield<br>(PSI) | Elongation<br>% | BHN @<br>500kg | Free Cutting<br>Brass = 100 |
|------------------------------------------------------------------------|--------|-----|-----|-----|------|------|----|------------------|----------------|-----------------|----------------|-----------------------------|
|                                                                        | C90300 | 620 | 88% | 8%  | -    | 4%   | -  | 44,000           | 22,000         | 18              | 70             | 30                          |
|                                                                        | C90500 | 62  | 88% | 10% | -    | 2%   | -  | 44,000           | 25,000         | 10              | 75             | 30                          |
|                                                                        | C90700 | 65  | 89% | 11% | -    | -    | -  | 40,000           | 25,000         | 10              | 80             | 20                          |
|                                                                        | C92200 | 622 | 88% | 6%  | 1.5% | 4.5% | -  | 38,000           | 19,000         | 18              | 65             | 42                          |
|                                                                        | C92300 | 621 | 87% | 8%  | 1%   | 4%   | -  | 40,000           | 19,000         | 16              | 70             | 42                          |
|                                                                        | C92500 | 640 | 87% | 11% | 1%   | 2%   | 1% | 40,000           | 24,000         | 10              | 80             | 30                          |
|                                                                        | C92700 | 63  | 88% | 10% | 2%   | -    | -  | 38,000           | 20,000         | 8               | 77             | 45                          |

| Manganese Bronze<br>Extreme Loads / Low Speeds | CDA    | SAE  | Cu  | Zn    | Al | Fe | Mn | Tensile<br>(PSI) | Yield<br>(PSI) | Elongation<br>% | BHN @<br>3,000kg | Free Cutting<br>Brass = 100 |
|------------------------------------------------|--------|------|-----|-------|----|----|----|------------------|----------------|-----------------|------------------|-----------------------------|
|                                                | C86200 | 430A | 64% | 26%   | 4% | 3% | 3% | 90,000           | 45,000         | 18              | 180              | 30                          |
|                                                | C86300 | 430B | 63% | 25%   | 6% | 3% | 3% | 110,000          | 62,000         | 14              | 225              | 8                           |
|                                                | C86500 | 43   | 58% | 39.5% | 1% | 1% | -  | 70,000           | 25,000         | 25              | 130              | 26                          |

| Aluminum Bronze<br>Extreme Loads / Low Speeds<br>(most corrosive environments) | CDA       | SAE | Cu  | Al           | Fe | Ni | Mn | Tensile<br>(PSI) | Yield<br>(PSI) | Elongation<br>% | BHN @<br>3,000kg | Free Cutting<br>Brass = 100 |
|--------------------------------------------------------------------------------|-----------|-----|-----|--------------|----|----|----|------------------|----------------|-----------------|------------------|-----------------------------|
|                                                                                | C95200    | 68A | 88% | 9%           | 3% | -  | -  | 68,000           | 26,000         | 20              | 125              | 50                          |
|                                                                                | C95300    | 68B | 89% | 10%          | 1% | -  | -  | 70,000           | 26,000         | 25              | 140              | 55                          |
|                                                                                | C95300-HT | -   | -   | Heat Treated |    |    |    | 80,000           | 40,000         | 12              | 174              | 50                          |
|                                                                                | C95400    | -   | 85% | 11%          | 4% | -  | -  | 85,000           | 32,000         | 12              | 170              | 60                          |
|                                                                                | C95400-HT | -   | -   | Heat Treated |    |    |    | 95,000           | 45,000         | 10              | 195              | 50                          |
|                                                                                | C95500    | -   | 81% | 11%          | 4% | 4% | -  | 95,000           | 42,000         | 10              | 195              | 50                          |
|                                                                                | C95500-HT | -   | -   | Heat Treated |    |    |    | 110,000          | 62,000         | 8               | 230              | 40                          |
|                                                                                | C95900    | -   | 82% | 13%          | 4% | -  | 1% | N/A              | N/A            | N/A             | N/A              | 25                          |



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# Alloy Cross Reference Chart

SMI-PRO-ACRC01. Revision 3. March 2017.

| Family                 | CDA                      | ASTM |             | SAE  |            | AMS  | Ingot | Federal        |                   | Military            |              | Other                                      |
|------------------------|--------------------------|------|-------------|------|------------|------|-------|----------------|-------------------|---------------------|--------------|--------------------------------------------|
| Manganese Bronze       | C86200                   | B505 | 8B          | 430A | J461, J462 | -    | 423   | QQ-C-390 (C4)  | QQ-B-726 Class B  | -                   | C-2229 Gr9   | High Strength Yellow Brass 90,000          |
|                        | C86300                   | B505 | 8C          | 430B | J461, J462 | -    | 424   | QQ-C-390 (C7)  | -                 | -                   | C-2229 Gr8   | High Strength Yellow Brass 110,000         |
|                        | C86500                   | B505 | 8A          | 43   | J461, J462 | 4860 | 421   | QQ-C-390 (C3)  | QQ-B-726 Class A  | -                   | C-2229 Gr7   | High Strength Yellow Brass 65,000          |
| Tin Bronze             | C90300                   | B505 | 1B          | 620  | J461, J462 | -    | 225   | QQ-C-390 (D5)  | QQ-B-1005 Comp.3  | B-11553 Comp.5      | C-2229 Gr1   | "G" Bronze                                 |
|                        | C90500                   | B505 | 1A          | 62   | J461, J462 | 4845 | 210   | QQ-C-390 (D6)  | QQ-B-1005 Comp.16 | B-11553 Comp. 16    | -            | Gun Metal Bronze                           |
|                        | C90700                   | B505 | -           | 65   | J461, J462 | -    | 205   | -              | -                 | -                   | -            | High Tin Bronze                            |
|                        | C92200                   | B505 | 2A          | 622  | -          | -    | 245   | -              | -                 | -                   | -            | -                                          |
|                        | C92300                   | B505 | 2B          | 621  | -          | -    | 230   | -              | -                 | -                   | -            | -                                          |
|                        | C92500                   | B505 | -           | 640  | -          | -    | 250   | -              | -                 | -                   | -            | -                                          |
|                        | C92700                   | B505 | -           | 63   | -          | -    | 206   | -              | -                 | -                   | -            | -                                          |
| High Leaded Tin Bronze | C93200                   | B505 | 3B          | 660  | J461, J462 | -    | 315   | QQ-C-390 (E7)  | QQ-B-1005 Comp.12 | -                   | C-15345 Gr12 | Bearing Bronze                             |
|                        | C93400                   | B505 | -           | -    | -          | -    | 310   | QQ-C-390 (E8)  | QQ-B-1005 Comp.8  | B-11553 Comp.8      | C-2229 Gr3   | -                                          |
|                        | C93500                   | B505 | 3C          | 66   | J461, J462 | -    | 326   | QQ-C-390 (E9)  | QQ-B-1005 Comp.14 | B-11553 Comp.14     | -            | -                                          |
|                        | C93600                   | B505 | -           | -    | -          | -    | -     | -              | -                 | -                   | -            | -                                          |
|                        | C93700                   | B505 | 3A          | 64   | J461, J462 | -    | 305   | QQ-C-390 (E10) | -                 | B-11553 Comp.23     | -            | -                                          |
|                        | C93800                   | B505 | 3D          | 67   | -          | -    | 319   | QQ-C-390 (E6)  | QQ-B-1005 Comp.19 | B-11553 Comp.19     | -            | -                                          |
|                        | C94100                   | B505 | -           | -    | -          | -    | 325   | QQ-C-390 (E5)  | -                 | B-16261 Grade X     | -            | -                                          |
|                        | C94300                   | B505 | 3E          | -    | -          | -    | 322   | QQ-C-390 (E1)  | QQ-B-1005 Comp.18 | B-16261 Grade V     | -            | -                                          |
| Aluminum Bronze        | C95200                   | B505 | 9A          | 68A  | J461, J462 | -    | 415A  | QQ-C-390 (G6)  | QQ-B-671 Class 1  | B-16033 Class 1     | -            | Aluminum Bronze "9A"                       |
|                        | C95300                   | B505 | 9B          | 68B  | J461, J462 | -    | 415B  | QQ-C-390 (G7)  | QQ-B-671 Class 2  | B-16033 Class 2     | -            | Aluminum Bronze "9B"                       |
|                        | C95300-HT                | B505 | 9B-HT       | -    | -          | -    | -     | -              | -                 | -                   | -            | -                                          |
|                        | C95400                   | B505 | 9C          | -    | J461, J462 | -    | 415C  | QQ-C-390 (G5)  | QQ-B-671 Class 3  | B-16033 Class 3     | C-15345 Gr13 | 954Sp™ <sup>1</sup> , Aluminum Bronze "9C" |
|                        | C95400-HT                | B505 | 9C-HT       | -    | -          | -    | -     | -              | -                 | -                   | -            | -                                          |
|                        | C95500                   | B505 | 9D          | -    | J461, J462 | -    | 415D  | QQ-C-390 (G3)  | -                 | B-16033 Class 4     | C-2229 Gr8   | 955Sp™ <sup>2</sup> , Aluminum Bronze "9D" |
|                        | C95500-HT                | B505 | 9D-HT       | -    | -          | -    | -     | -              | -                 | -                   | -            | -                                          |
|                        | C95520                   | B505 | -           | -    | -          | -    | -     | -              | -                 | -                   | -            | -                                          |
|                        | C95900                   | B505 | -           | -    | -          | -    | -     | -              | -                 | -                   | -            | 959Sp™ <sup>3</sup>                        |
|                        | Alloy 52Sp™ <sup>4</sup> | B505 | -           | -    | -          | -    | -     | -              | -                 | -                   | -            | Alloy 52Sp™ <sup>4</sup>                   |
| Sintered Bronze        | -                        | B438 | Gr1, Type 2 | 841  | -          | -    | -     | -              | -                 | B-5687D Type 1, Gr1 | -            | Oil-Impregnated, Self-Lubricating          |
| Free-Cutting Brass     | C36000                   | -    | -           | -    | -          | 4610 | -     | -              | -                 | -                   | -            | -                                          |
| Naval Bronze           | C46400                   | B124 | -           | -    | -          | -    | -     | -              | -                 | -                   | -            | -                                          |
| Leaded Red Brass       | C83600                   | B505 | 4A          | 40   | J461, J462 | 4855 | 115   | QQ-C-390 (B5)  | QQ-B-1005 Comp.2  | QQ-C-390 (B5)       | C-2229 Gr12  | Composition Bronze                         |
| Leaded Semi Red Brass  | C84400                   | B505 | 5A          | -    | -          | -    | 123   | QQ-C-390 (B2)  | QQ-B-1005 Comp.11 | QQ-C-390 (B2)       | -            | -                                          |
| High Copper Alloy      | Alloy 49WS™ <sup>5</sup> | -    | -           | -    | -          | -    | -     | -              | -                 | -                   | -            | Alloy 49WS™ <sup>5</sup>                   |

1 - 954SP<sup>TM</sup> : Spectrum Premium "Alloy 954SP" is our high-quality version of aluminum bronze C954 recommended for more demanding users and applications.

2 - 955SP<sup>TM</sup> : Spectrum Premium "Alloy 955SP" in our high-quality version of nickel-aluminum bronze C955.

3 - 959SP<sup>TM</sup> : Spectrum Premium "Alloy 959SP" is our high-quality version of aluminum-bronze C959.

4 - Alloy 52SP<sup>TM</sup> : Proprietary alloy for deep drawing, roll forming, and bending. Produced exclusively by Spectrum Machine. Alloy 52SP does not carry a CDA alloy designation.

5 - Alloy 49WS<sup>TM</sup> : Proprietary alloy for low-cost, high-performance weld spatter resistance. Produced exclusively by Spectrum Machine. Alloy 49WS does not carry a CDA alloy designation.



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# NOTES

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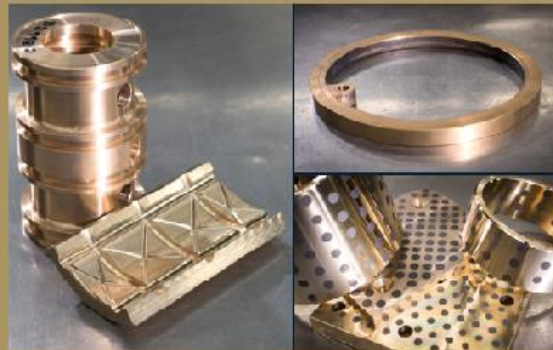
# COMPANY INFORMATION



**Casting Facility**



**Machining Facility**



**spectrum**  
**MACHINE, INC.**

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