

Rockwell Hardness (Tensile Strength) Table

| C | A | Tensile PSI (000) | C | A | B | Tensile PSI (000) |
|----|------|----------------------|----|------|----|----------------------|
| 60 | 81 | 311 | 30 | 65.5 | | 136 |
| 55 | 78.5 | 287 | 28 | 64.5 | | 129 |
| 50 | 76 | 256 | 26 | 63.5 | | 123 |
| 48 | 74.5 | 237 | 24 | 62.5 | | 118 |
| 46 | 73.5 | 221 | 22 | 61.5 | 99 | 112 |
| 44 | 72.5 | 208 | 20 | 60.5 | 97 | 107 |
| 42 | 71.5 | 194 | 18 | 59.5 | 96 | 103 |
| 40 | 70.5 | 181 | 16 | 58.0 | 95 | 100 |
| 38 | 69.5 | 170 | 12 | 56.5 | 92 | 93 |
| 36 | 68.5 | 160 | 8 | 55.0 | 89 | 88 |
| 34 | 67.5 | 150 | 4 | 53.0 | 86 | 83 |
| 32 | 66.5 | 142 | 1 | 51 | 83 | 80 |

EXTERNAL THREADS "J" TYPE (CONTROLLED RADIUS ROOT) CLASS 3A PER MIL-S-8879C (DIMENSIONS IN INCHES)

| SIZE-THREADS PER INCH | MAJOR DIAMETER | | PITCH DIAMETER | | MINOR DIAMETER | |
|--------------------------|----------------|--------|----------------|-------|----------------|-------|
| | MIN | MAX | MIN | MAX | MIN | MAX |
| .112-40 (#4-40) | .1069 | .1120 | .0939 | .0958 | .0798 | .0832 |
| .138-32 (#6-32) | .1320 | .1380 | .1156 | .1177 | .0979 | .1019 |
| .164-32 (#8-32) | .1580 | .1640 | .1415 | .1437 | .1238 | .1279 |
| .190-32 (#10-32) | .1840 | .1900 | .1674 | .1697 | .1497 | .1539 |
| .250-24 (1/4-28) | .2435 | .2500 | .2243 | .2268 | .2041 | .2088 |
| .3125-24 (5/16-24) | .3053 | .3125 | .2827 | .2854 | .2591 | .2644 |
| .375-24 (3/8-24) | .3678 | .3750 | .3450 | .3479 | .3214 | .3268 |
| .4375-20 (7/16-20) | .4294 | .4375 | .4019 | .4050 | .3736 | .3797 |
| .500-20 (1/2-20) | .4919 | .5000 | .4643 | .4675 | .4360 | .4422 |
| .5625-18 (9/16-18) | .5538 | .5625 | .5230 | .5264 | .4916 | .4983 |
| .625-18 (5/8-18) | .6163 | .6250 | .5854 | .5889 | .5540 | .5608 |
| .750-16 (3/4-16) | .7406 | .7500 | .7056 | .7094 | .6702 | .6778 |
| .875-14 (7/8-14) | .8647 | .8750 | .8245 | .8286 | .7841 | .7925 |
| 1.00-12 (1-12) | .9886 | 1.0000 | .9415 | .9459 | .8944 | .9038 |

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