

Wilson Hardness Vs. Minimum Thickness — Chart #55

| Any greater thickness & hardness can be safely tested on indicated scale | ROCKWELL SUPERFICIAL HARDNESS TESTER | | | ROCKWELL HARDNESS TESTER | | |
|--|--------------------------------------|--------|--------|----------------------------|---------|---------|
| | 15N | 30N | 45N | A | D | C |
| | 15 Kg. | 30 Kg. | 45 Kg. | 60 Kg. | 100 Kg. | 150 Kg. |
| Thickness in inches | Diamond "N" "Brale" Penetrator | | | Diamond "Brale" Penetrator | | |
| .006 | 92 | -- | -- | -- | -- | -- |
| .008 | 90 | -- | -- | -- | -- | -- |
| .010 | 88 | -- | -- | -- | -- | -- |
| .012 | 83 | 82 | 77 | -- | -- | -- |
| .014 | 76 | 80 | 74 | -- | -- | -- |
| .016 | 68 | 74 | 72 | 86 | -- | -- |
| .018 | X | 66 | 68 | 84 | -- | -- |
| .020 | X | 57 | 63 | 82 | 77 | -- |
| .022 | X | 47 | 58 | 78 | 75 | 69 |
| .024 | X | X | 51 | 76 | 72 | 67 |
| .026 | X | X | 37 | 71 | 68 | 65 |
| .028 | X | X | 20 | 67 | 63 | 62 |
| .030 | X | X | X | 60 | 58 | 57 |
| .032 | X | X | X | X | 51 | 52 |
| .034 | X | X | X | X | 43 | 45 |
| .036 | X | X | X | X | X | 37 |
| .038 | X | X | X | X | X | 28 |
| .040 | X | X | X | X | X | 20 |

| Any greater thickness & hardness can be safely tested on indicated scale | ROCKWELL SUPERFICIAL HARDNESS TESTER | | | ROCKWELL HARDNESS TESTER | | |
|--|--------------------------------------|--------|--------|--------------------------|---------|---------|
| | 15T | 30T | 45T | F | B | G |
| | 15 Kg. | 30 Kg. | 45 Kg. | 60 Kg. | 100 Kg. | 150 Kg. |
| Thickness in inches | 1/16" Ball Penetrator | | | 1/16" Ball Penetrator | | |
| .005 | 93 | -- | -- | -- | -- | -- |
| .010 | 90 | 87 | -- | -- | -- | -- |
| .015 | 78 | 77 | 77 | -- | -- | -- |
| .020 | X | 58 | 62 | 100 | -- | -- |
| .025 | X | X | 26 | 92 | 92 | 90 |
| .030 | X | X | X | 67 | 68 | 69 |
| .035 | X | X | X | X | 44 | 46 |
| .040 | X | X | X | X | 20 | 22 |

X No Minimum Hardness

These values are approximate only and this chart is intended primarily as a guide.

Materials thinner than shown in this chart may be tested on the Tukon Microhardness Tester. The thickness of the specimen should be at least 1½ times the diagonal of the impression when using the 136° Diamond Pyramid Indenter, and at least ½ times the long diagonal when using the Knoop Indenter.