

NDT SUPPLY.Com, INC.

Hardness-Conductivity for Aluminum



| Alloy | Temper | Electrical conductivity 20°C. (68°F) % IACS | Hardness Rockwell HRB * | Comment |
|-------|-------------|---|-------------------------------|---------|
| 1060 | 0 | 62 | 19 HB | a |
| | H18 | 61 | 35 HB | a |
| 1100 | 0 | 59 | 23 HB | a |
| | H18 | 57 | 44 HB | a |
| 1350 | All | 62 | -- | a |
| 2004 | T62 | 38 - 42 | 55 - 75 | b1 |
| 2011 | T3 | 30 | 95 HB | a |
| | T8 | 45 | 100 HB | a |
| 2014 | 0 | 48.5 - 51 | <61 HRE | b2 |
| | T3XX | 31.5 - 35 | 68 - 80 | b1 |
| | T4XXX | 31.5 - 35 | 68 - 80 | b1 |
| | T6XXX | 35 - 40 | 78.5 - 89.5 | b1 |
| 2017 | 0 | 48.5 - 51.0 | <51 HRE | b2 |
| | T4XXX | 31.5 - 35 | 68 - 80 | b1 |
| | T61 | 40 | 120 HB | a |
| 2018 | T61 | 40 | 120 HB | a |
| 2024 | 0 | 45.5 - 49.0 | <64 HRE | b2 |
| | T3XXX | 28.5 - 32.0 | 63 - 83.5 | b1 |
| | T4X | 28.5 - 32.0 | 63 - 83.5 | b1 |
| | T6X | 36 - 40 | 72 - 86 | b1 |
| | T8XXX | 38 - 42 | 74 - 86 | b1 |
| | T6,T81,T861 | 38 | 130 HB | a |
| 2025 | T6 | 40 | 110 HB | a |
| 2036 | T4 | 41 | -- | a |
| 2090 | T3X | 16.0 -18.5 | 34 - 49 | b1 |
| | T83X | 16.0 -18.5 | 80 - 90 | b1 |
| | T86X | 16.0 -18.5 | 80 - 90 | b1 |
| 2117 | T4 | 40 | 70 HB | a |
| 2124 | T8X | 38 - 42 | 74 - 86 | b1 |
| 2218 | T72 | 40 | 95 HB | a |
| 2219 | 0 | 44 - 49 | <71 HRE | b2 |
| | T3XXX | 26 - 31 | >64.5 | b1 |
| | T37 | 27 - 31 | >65.5 | b1 |
| | T4X | 28 - 32 | >61 | b1 |
| | T6X | 32 - 35 | >65.5 | b1 |
| | T8XXX | 31 - 35 | >73 | b1 |
| | T87 | 31 - 35 | >77 | b1 |
| 2224 | T3511 | 29.5 - 33.5 | 70 - 83.5 | b1 |
| 2334 | T39 | 29 - 32 | 77 - 86 | b1 |

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P.O. Box 7350, Shawnee Mission, KS 66207-0350 USA

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| | | | | |
|------|-------|-------------|-------------|----|
| 2618 | T61 | 37 | 115 HB | a |
| 3003 | 0 | 44.5 - 50.5 | <66 HRH | b1 |
| | H12 | 42 | 35 HB | a |
| | H14 | 41 | 40 HB | a |
| | H18 | 40 | 55 HB | a |
| 3004 | All | 42 | 45 HB | a |
| 3105 | All | 45 | -- | a |
| 4032 | 0 | 40 | -- | a |
| | T6 | 35 | 120 HB | a |
| 4043 | 0 | 42 | -- | a |
| 4045 | All | 45 | -- | a |
| 4343 | All | 42 | -- | a |
| 5005 | All | 52 | -- | a |
| 5050 | All | 50 | -- | a |
| 5052 | 0 | 34 - 37 | <70 HRE | b2 |
| | H34 | 34 - 37 | >66 HRE | b1 |
| 5056 | 0 | 29 | 65 HB | a |
| | H38 | 27 | 100 HB | a |
| 5083 | 0 | -- | <76 HRE | b2 |
| | HXX | -- | >80 HRE | b1 |
| 5086 | All | 31 | -- | a |
| 5154 | 0 | | <51 HRE | b2 |
| | HXX | 32 | 55 - 80 HRE | b1 |
| 5254 | All | 32 | -- | a |
| 5356 | 0 | 29 | -- | a |
| 5454 | 0 | 34 | 62 HB | a |
| | H38 | 34 | -- | a |
| 5456 | 0 | 29 | -- | a |
| 5457 | All | 46 | -- | a |
| 5652 | All | 35 | -- | a |
| 5657 | All | 54 | -- | a |
| 6005 | T1 | 47 | -- | a |
| | T5 | 49 | -- | a |
| 6013 | T4X | 37 - 40 | 41 - 60 | b1 |
| | T6X | 41 - 44 | 64 - 79 | b1 |
| 6053 | 0 | 45 | -- | a |
| | T4 | 40 | -- | a |
| | T6 | 42 | -- | a |
| 6061 | 0 | 47 - 56 | <25 HRE | b2 |
| | T4XXX | 36 - 45.5 | >64 HRE | b1 |
| | T42 | 36 - 45.5 | >60 HRE | b1 |
| | T6XXX | 40 - 51 | 87 - 90 HRE | b1 |
| 6063 | 0 | 57 - 65 | <71 HRH | b2 |
| | T1X | 48 - 58 | >37 HRE | b1 |

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|------|--------|-----------|-----------|----|
| | T4X | 48 - 58 | >40 HRE | b1 |
| | T5X | 50 - 60 | >44 HRE | b1 |
| | T6X | 50 -60 | >70 HRE | b1 |
| 6066 | 0 | 40 | 90 HB | a |
| | T6 | 37 | 120 HB | a |
| 6070 | T6 | 44 | -- | a |
| 6101 | T6 | 57 | 71 HB | a |
| | T61 | 59 | -- | a |
| | T63 | 58 | -- | a |
| | T64 | 60 | -- | a |
| | T65 | 58 | -- | a |
| 6105 | T1 | 46 | -- | a |
| | T5 | 50 | -- | a |
| 6151 | 0 | 54 | -- | a |
| | T4 | 42 | -- | a |
| | T6 | 45 | -- | a |
| 6201 | T81 | 54 | -- | a |
| 6253 | - | - | -- | a |
| 6262 | T9 | 44 | -- | a |
| 6351 | T6 | 46 | 95 HB | a |
| 6463 | T1 | 50 | 42 HB | a |
| | T5 | 55 | 60 HB | a |
| | T6 | 53 | 74 HB | a |
| | | | -- | a |
| 6951 | 0 | 56 | -- | a |
| | T6 | 52 | -- | a |
| 7049 | 0 | 44 - 50 | <71 HRE | b2 |
| | T73XXX | 40 - 44 | >82 | b1 |
| | T76XXX | 38 - 44 | >86 | b1 |
| 7050 | 0 | 44 - 50 | <71 HRE | b2 |
| | T735XX | 41 - 44 | 82 - 92 | b1 |
| | T74XX | 40 - 44 | 82 - 92 | b1 |
| | T76XXX | 40 - 44 | 84 - 94 | b1 |
| 7055 | T7751 | 35.5 - 38 | 90.5 - 98 | b1 |
| | T77511 | 35.5 - 38 | 91.5 - 98 | b1 |
| 7072 | 0 | 59 | -- | a |
| 7075 | 0 | 44 - 47.5 | <66 HRE | b2 |
| | T6XXX | 30 - 35 | 83.5 - 94 | b1 |
| | T73XX | 38 - 42 | 79.5 - 89 | b1 |
| | T73511 | 38 - 42 | 79.5 - 89 | b1 |
| | T76XXX | 38 - 42 | 82 - 91 | b1 |
| 7079 | T6XX | 30 - 33.5 | 84 - 94 | b1 |
| 7150 | T651 | 34 - 39.5 | 90 - 98 | b1 |
| | T6511 | 32 - 37.5 | 90 - 98 | b1 |
| | T77511 | 35.5 - 39 | 90 - 98 | b1 |

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| | | | | |
|------|---------|----|----|---|
| 7178 | T6 | 31 | -- | a |
| 8017 | H12,H22 | 59 | -- | a |
| | H212 | 61 | -- | a |
| 8030 | H221 | 61 | -- | a |

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