# Conductivity Of Metals Sorted By Resistivity

Source Code:
1 - CSNDT
2 - Eddy Current Testing Manual on Eddy Current Method
3 - NDT Magazine Sept/Oct 1955, Cosgrove Article

| RESIST. ohm-m | COND. SIEMENS/m | % IACS | SOURCE CODE | MATERIAL |
|---|---|---|---|---|
| 1.591E-08 | 6.287E+07 | 108.40 | 1 | Silver, Pure |
| 1.642E-08 | 6.090E+07 | 105.00 | 2 | Silver, Pure |
| 1.664E-08 | 6.009E+07 | 103.60 | 1 | Copper, Pure |
| 1.707E-08 | 5.858E+07 | 101.00 | 1 | Copper, Electrolytic Tough Pitch (Annealed) |
| 1.724E-08 | 5.800E+07 | 100.00 | 2 | Copper, Pure |
| 2.028E-08 | 4.930E+07 | 85.00 | 1 | Copper, Deoxidized (Annealed) |
| 2.349E-08 | 4.257E+07 | 73.40 | 1 | Gold |
| 2.463E-08 | 4.060E+07 | 70.00 | 2 | Gold, Pure |
| 2.655E-08 | 3.767E+07 | 64.94 | 1 | Aluminum, 99.99% |
| 2.826E-08 | 3.538E+07 | 61.00 | 2 | Aluminum, Pure |
| 2.871E-08 | 3.483E+07 | 60.00 - 60.10 | 3 | Aluminum Alloy, 7072 |
| 2.903E-08 | 3.445E+07 | 57.00 - 61.80 | 3 | Aluminum Alloy, 1100 |
| 2.922E-08 | 3.422E+07 | 59.00 | 1 | Aluminum, 2S Cond. "0" |
| 3.025E-08 | 3.306E+07 | 57.00 | 1 | Aluminum, 2S Cond. H18 |
| 3.073E-08 | 3.254E+07 | 55.70 - 56.50 | 3 | Aluminum Alloy, 6951-0 |
| 3.079E-08 | 3.248E+07 | 56.00 | 1 | Gilding Metal (Annealed) |
| 3.135E-08 | 3.190E+07 | 55.00 | 1 | Aluminum, A51S Cond. "0" |
| 3.184E-08 | 3.141E+07 | 53.30 - 55.00 | 3 | Aluminum Alloy, 6151-0 |
| 3.235E-08 | 3.091E+07 | 52.30 - 54.30 | 3 | Aluminum Alloy, 4043-F |
| 3.250E-08 | 3.077E+07 | 53.00 - 53.10 | 3 | Aluminum Alloy, 6951-F |
| 3.281E-08 | 3.048E+07 | 52.30 - 52.80 | 3 | Aluminum Alloy, 5005 |
| 3.435E-08 | 2.912E+07 | 50.10 - 50.30 | 3 | Aluminum Alloy, X3005-0 |
| 3.448E-08 | 2.900E+07 | 50.00 | 1 | Aluminum, 24S Cond. "0" |
| 3.448E-08 | 2.900E+07 | 50.00 | 1 | Aluminum, 3S Cond. "0" |
| 3.448E-08 | 2.900E+07 | 50.00 | 1 | Aluminum, 18S Cond. "0" |
| 3.448E-08 | 2.900E+07 | 50.00 | 1 | Aluminum, 14S Cond. "0" |
| 3.473E-08 | 2.880E+07 | 48.60 - 50.70 | 3 | Aluminum Alloy, 2014-F and -0 |
| 3.490E-08 | 2.865E+07 | 49.30 - 49.50 | 3 | Aluminum Alloy, 2017-F |
| 3.515E-08 | 2.845E+07 | 48.30 - 49.80 | 3 | Aluminum Alloy, 5050 |
| 3.519E-08 | 2.842E+07 | 47.00 - 51.00 | 3 | Aluminum Alloy, 6062-F |
| 3.540E-08 | 2.825E+07 | 48.70 | 1 | Calcium |
| 3.592E-08 | 2.784E+07 | 48.00 | 1 | Bronze Phos., 1.25% Phos. Grade E |
| 3.592E-08 | 2.784E+07 | 48.00 | 1 | Phos. Bronze, 1.25% Phos. Grade E |
| 3.618E-08 | 2.764E+07 | 46.80 - 48.50 | 3 | Aluminum Alloy, 2024-F |
| 3.649E-08 | 2.741E+07 | 44.70 - 49.80 | 3 | Aluminum Alloy, 3003-0 |
| 3.661E-08 | 2.732E+07 | 44.70 - 49.50 | 3 | Aluminum Alloy, 6062-T6 |
| 3.736E-08 | 2.677E+07 | 44.50 - 47.80 | 3 | Aluminum Alloy, 7075-F |
| 3.769E-08 | 2.654E+07 | 45.50 - 46.00 | 3 | Aluminum Alloy, X7178-F and -0 |
| 3.798E-08 | 2.633E+07 | 42.30 - 48.50 | 3 | Aluminum Alloy, 6061-F and -0 |
| 3.831E-08 | 2.610E+07 | 45.00 | 1 | Aluminum, 17S Cond. "0" |
| 3.831E-08 | 2.610E+07 | 45.00 | 1 | Aluminum, 53S Cond. "0" |
| 3.831E-08 | 2.610E+07 | 45.00 | 1 | Aluminum, 61S Cond. "0" |
| 3.831E-08 | 2.610E+07 | 45.00 | 1 | Aluminum, A51S Cond. T4 and T6 |
| 3.831E-08 | 2.610E+07 | 45.00 | 1 | Aluminum Alloy, 750 |
| 3.861E-08 | 2.590E+07 | 42.30 - 47.00 | 3 | Aluminum Alloy, 5357 |
| 3.861E-08 | 2.590E+07 | 37.80 - 51.50 | 3 | Aluminum Alloy, 3003-H14 and -H12 |
| 3.879E-08 | 2.578E+07 | 43.90 - 45.00 | 3 | Aluminum Alloy, 6151-T6 |
| 3.918E-08 | 2.552E+07 | 44.00 | 1 | Bronze, Commercial (Annealed) |
| 3.918E-08 | 2.552E+07 | 44.00 | 1 | Aluminum Alloy, 142 Sand Cond. T21 |
| 3.941E-08 | 2.538E+07 | 43.50 - 44.00 | 3 | Aluminum Alloy, 6062-T4 |
| 3.950E-08 | 2.532E+07 | 39.30 - 48.00 | 3 | Aluminum Alloy, 6053 |
| 4.000E-08 | 2.500E+07 | 43.10 | 1 | Beryllium |
| 4.010E-08 | 2.494E+07 | 43.00 | 1 | Aluminum Alloy, 355 Sand Cond. T51 |
| 4.010E-08 | 2.494E+07 | 43.00 | 1 | Aluminum Alloy, 356 Sand Cond. T51 |
| 4.043E-08 | 2.474E+07 | 37.80 - 47.50 | 3 | Aluminum Alloy, 3003-H24 and -H28 |
| 4.066E-08 | 2.459E+07 | 40.00 - 44.80 | 3 | Aluminum Alloy, 6061-T6 and -T9 |
| 4.066E-08 | 2.459E+07 | 41.50 - 43.30 | 3 | Aluminum Alloy, 6151-T4 |
| 4.081E-08 | 2.451E+07 | 42.10 - 42.40 | 3 | Aluminum Alloy, 2127-T4 |
| 4.105E-08 | 2.436E+07 | 42.00 | 1 | Aluminum Alloy, 355 Sand Cond. T7 |
| 4.105E-08 | 2.436E+07 | 42.00 | 1 | Aluminum Alloy, 43 (Annealed) |
| 4.105E-08 | 2.436E+07 | 42.00 | 1 | Aluminum, 3S Cond. H 12 |
| 4.105E-08 | 2.436E+07 | 42.00 | 1 | Bronze, Commercial Leaded |

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|---|---|---|---|---|---|
| 4.105E-08 | 2.436E+07 | 42.00 | | 1 | Leaded Commercial Bronze |
| 4.160E-08 | 2.404E+07 | 39.40 | - 43.50 | 3 | Aluminum Alloy, 3004 |
| 4.205E-08 | 2.378E+07 | 41.00 | | 1 | Aluminum, 3S Cond. H 14 |
| 4.205E-08 | 2.378E+07 | 41.00 | | 1 | Aluminum Alloy, 122 Sand Cond. T2 |
| 4.289E-08 | 2.332E+07 | 40.20 | | 3 | Aluminum Alloy, 2618 |
| 4.310E-08 | 2.320E+07 | 40.00 | | 1 | Aluminum, 24S Cond. T6 |
| 4.310E-08 | 2.320E+07 | 40.00 | | 1 | Aluminum, 18S Cond. T61 |
| 4.310E-08 | 2.320E+07 | 40.00 | | 1 | Aluminum, 11S Cond. T3 |
| 4.310E-08 | 2.320E+07 | 40.00 | | 1 | Aluminum, 14S Cond. T6 |
| 4.310E-08 | 2.320E+07 | 40.00 | | 1 | Aluminum, 3S Cond. H 18 |
| 4.310E-08 | 2.320E+07 | 40.00 | | 1 | Aluminum, 32S Cond. "0" |
| 4.310E-08 | 2.320E+07 | 40.00 | | 1 | Aluminum, 53S Cond. T4 and T6 |
| 4.310E-08 | 2.320E+07 | 40.00 | | 1 | Aluminum, 61S Cond. T4 and T6 |
| 4.415E-08 | 2.265E+07 | 37.60 | - 40.50 | 3 | Aluminum Alloy, 6061-T4 |
| 4.421E-08 | 2.262E+07 | 39.00 | | 1 | Aluminum Alloy, 356 Sand Cond. T6 |
| 4.421E-08 | 2.262E+07 | 39.00 | | 1 | Aluminum Alloy, 355 Perm. Mold Cond. T6 |
| 4.421E-08 | 2.262E+07 | 39.00 | | 1 | Aluminum Alloy, 13 |
| 4.432E-08 | 2.256E+07 | 38.90 | | 1 | Beryllium |
| 4.438E-08 | 2.253E+07 | 38.00 | - 39.70 | 3 | Aluminum Alloy, 2014-T6 |
| 4.467E-08 | 2.239E+07 | 38.60 | | 1 | Magnesium, Pure |
| 4.490E-08 | 2.227E+07 | 38.40 | | 1 | Rhodium |
| 4.610E-08 | 2.169E+07 | 37.40 | | 3 | Aluminum Alloy, 2218-T61 |
| 4.660E-08 | 2.146E+07 | 37.00 | | 1 | Aluminum Alloy, 142 Sand Cond. T77 |
| 4.660E-08 | 2.146E+07 | 37.00 | | 1 | Aluminum Alloy, 195 Cond. T62 |
| 4.660E-08 | 2.146E+07 | 37.00 | | 2 | Magnesium |
| 4.660E-08 | 2.146E+07 | 37.00 | | 1 | Aluminum Alloy, 360 |
| 4.660E-08 | 2.146E+07 | 37.00 | | 1 | Aluminum Alloy, 355 Sand Cond. T61 |
| 4.660E-08 | 2.146E+07 | 37.00 | | 1 | Aluminum Alloy, 43 As Cast |
| 4.660E-08 | 2.146E+07 | 37.00 | | 1 | Aluminum Alloy, A 108 |
| 4.660E-08 | 2.146E+07 | 37.00 | | 1 | Brass, Red (Annealed) |
| 4.756E-08 | 2.103E+07 | 36.00 | - 36.50 | 3 | Aluminum Alloy, 2011-T3 |
| 4.789E-08 | 2.088E+07 | 36.00 | | 1 | Aluminum Alloy, B 195 Cond. T6 |
| 4.789E-08 | 2.088E+07 | 36.00 | | 1 | Aluminum Allcast, Cond. Sol. H.T. & Stress |
| 4.789E-08 | 2.088E+07 | 36.00 | | 1 | Aluminum Alloy, 355 Sand Cond. T6 |
| 4.816E-08 | 2.076E+07 | 35.30 | - 36.30 | 3 | Aluminum Alloy, 4032-T6 |
| 4.843E-08 | 2.065E+07 | 33.60 | - 37.60 | 3 | Aluminum Alloy, 5052 |
| 4.926E-08 | 2.030E+07 | 35.00 | | 1 | Aluminum Alloy, 195 Cond. T4 |
| 4.926E-08 | 2.030E+07 | 35.00 | | 1 | Aluminum Alloy, 214 |
| 4.926E-08 | 2.030E+07 | 35.00 | | 1 | Aluminum Alloy, 40E |
| 4.926E-08 | 2.030E+07 | 35.00 | | 1 | Aluminum, 52S Cond. "0" and H 38 |
| 4.926E-08 | 2.030E+07 | 35.00 | | 1 | Aluminum, 32S Cond. T6 |
| 4.926E-08 | 2.030E+07 | 35.00 | | 1 | Aluminum Alloy, B 195 Cond. T4 |
| 4.998E-08 | 2.001E+07 | 34.50 | | 1 | Magnesium (Wrought Alloys) |
| 5.071E-08 | 1.972E+07 | 34.00 | | 1 | Aluminum Alloy, 142 Sand Cond. T571 |
| 5.071E-08 | 1.972E+07 | 34.00 | | 1 | Aluminum Alloy, 122 Perm. Mold As Cast |
| 5.124E-08 | 1.952E+07 | 32.50 | - 34.80 | 3 | Aluminum Alloy, 2014-T3 and -T4 |
| 5.209E-08 | 1.920E+07 | 31.40 | - 34.80 | 3 | Aluminum Alloy, 7075-T6 |
| 5.225E-08 | 1.914E+07 | 33.00 | | 1 | Molybdenum |
| 5.225E-08 | 1.914E+07 | 33.00 | | 1 | Aluminum Alloy, 122 Sand Cond. T61 |
| 5.225E-08 | 1.914E+07 | 33.00 | | 1 | Aluminum Alloy, A214 |
| 5.289E-08 | 1.891E+07 | 32.60 | | 1 | Iridium |
| 5.330E-08 | 1.876E+07 | 28.60 | - 36.10 | 3 | Aluminum Alloy, 2024-T3 |
| 5.388E-08 | 1.856E+07 | 32.00 | | 1 | Brass, Low (Annealed) |
| 5.388E-08 | 1.856E+07 | 32.00 | | 1 | Aluminum Alloy, 142 Perm. Mold Cond. T61 |
| 5.388E-08 | 1.856E+07 | 27.00 | - 37.00 | 3 | Aluminum Alloy, 7075-W |
| 5.388E-08 | 1.856E+07 | 32.00 | | 2 | Aluminum Alloy, 7075-T6 |
| 5.448E-08 | 1.836E+07 | 30.50 | - 32.80 | 3 | Aluminum Alloy, 5154 |
| 5.491E-08 | 1.821E+07 | 31.40 | | 1 | Tungsten |
| 5.562E-08 | 1.798E+07 | 31.00 | | 1 | Aluminum Alloy, 108 |
| 5.747E-08 | 1.740E+07 | 30.00 | | 1 | Aluminum, 24S Cond. T4 |
| 5.747E-08 | 1.740E+07 | 30.00 | | 1 | Aluminum Allcast, Sol H.T. and Aged |
| 5.747E-08 | 1.740E+07 | 30.00 | | 1 | Aluminum, 17S Cond. T4 |
| 5.747E-08 | 1.740E+07 | 30.00 | | 1 | Aluminum Alloy, 113 |
| 5.747E-08 | 1.740E+07 | 30.00 | | 1 | Aluminum Alloy, R 317 |
| 5.747E-08 | 1.740E+07 | 30.00 | | 1 | Aluminum, 75S Cond. T6 |
| 5.747E-08 | 1.740E+07 | 30.00 | | 1 | Aluminum Allcast, Stress Relieved |
| 5.766E-08 | 1.734E+07 | 28.80 | - 31.00 | 3 | Aluminum Alloy, 2024-T4 |
| 5.805E-08 | 1.723E+07 | 26.80 | - 32.60 | 3 | Aluminum Alloy, X7178-W and T6 |
| 5.884E-08 | 1.699E+07 | 29.10 | - 29.50 | 3 | Aluminum Alloy, 2024-T36 |
| 5.945E-08 | 1.682E+07 | 29.00 | | 1 | Aluminum Alloy, A 132 Cond. T551 |
| 5.945E-08 | 1.682E+07 | 29.00 | | 1 | Aluminum, Red X-8 Cond. Stress Relieved |
| 5.945E-08 | 1.682E+07 | 29.00 | | 1 | Aluminum, 56S Cond. "0" |
| 5.945E-08 | 1.682E+07 | 29.00 | | 2 | Zinc |
| 5.956E-08 | 1.679E+07 | 28.10 | - 29.80 | 3 | Aluminum Alloy, 5056 |

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|---|---|---|---|---|
| 6.158E-08 | 1.624E+07 | 28.00 | 1 | Zinc, Commercial Rolled |
| 6.158E-08 | 1.624E+07 | 28.00 | 1 | Aluminum Alloy, 319 Perm. Mold |
| 6.158E-08 | 1.624E+07 | 28.00 | 1 | Cartridge Brass (Annealed) |
| 6.158E-08 | 1.624E+07 | 28.00 | 1 | Muntz Metal (Annealed) |
| 6.158E-08 | 1.624E+07 | 28.00 | 1 | Aluminum Alloy, 85 |
| 6.158E-08 | 1.624E+07 | 28.00 | 1 | Brass, Cartridge (Annealed) |
| 6.247E-08 | 1.601E+07 | 27.60 | 1 | Cobalt |
| 6.386E-08 | 1.566E+07 | 27.00 | 1 | Aluminum Alloy, C113 |
| 6.386E-08 | 1.566E+07 | 27.00 | 1 | Zinc, Die Cast |
| 6.386E-08 | 1.566E+07 | 27.00 | 1 | Aluminum, 56S Cond. H 38 |
| 6.386E-08 | 1.566E+07 | 27.00 | 1 | Aluminum Allcast, as cast |
| 6.386E-08 | 1.566E+07 | 27.00 | 1 | Aluminum Alloy, 319 Sand |
| 6.386E-08 | 1.566E+07 | 27.00 | 1 | Brass, Yellow (Annealed) |
| 6.386E-08 | 1.566E+07 | 27.00 | 1 | Aluminum Alloy, 380 |
| 6.631E-08 | 1.508E+07 | 26.00 | 1 | Brass, Low Leaded (Annealed) |
| 6.631E-08 | 1.508E+07 | 26.00 | 1 | Brass, Leaded Naval (Annealed) |
| 6.631E-08 | 1.508E+07 | 26.00 | 1 | Brass, Naval (Annealed) |
| 6.631E-08 | 1.508E+07 | 26.00 | 1 | Aluminum Alloy, Red X-8 As Cast |
| 6.842E-08 | 1.462E+07 | 25.20 | 1 | Cadmium |
| 6.842E-08 | 1.462E+07 | 25.20 | 1 | Nickel, Pure (Electrolytic) |
| 6.897E-08 | 1.450E+07 | 25.00 | 1 | Leaded Yellow Brass |
| 6.897E-08 | 1.450E+07 | 25.00 | 1 | Zinc, Die Cast |
| 6.897E-08 | 1.450E+07 | 25.00 | 1 | Brass, Leaded Yellow |
| 7.009E-08 | 1.427E+07 | 24.60 | 1 | Admiralty Metal (annealed) |
| 7.184E-08 | 1.392E+07 | 24.00 | 2 | Brass, Admiralty |
| 7.184E-08 | 1.392E+07 | 24.00 | 1 | Aluminum Alloy, 218 |
| 7.184E-08 | 1.392E+07 | 24.00 | 1 | Bronze Manganese (Annealed) |
| 7.184E-08 | 1.392E+07 | 24.00 | 2 | Admiralty Brass |
| 7.184E-08 | 1.392E+07 | 24.00 | 1 | Manganese Bronze (Annealed) |
| 7.496E-08 | 1.334E+07 | 23.00 | 1 | Brass, Aluminum (Annealed) |
| 7.496E-08 | 1.334E+07 | 23.00 | 1 | Aluminum Brass (Annealed) |
| 7.595E-08 | 1.317E+07 | 22.70 | 1 | Ruthenium |
| 8.210E-08 | 1.218E+07 | 21.00 | 1 | Aluminum Alloy, 220 |
| 8.210E-08 | 1.218E+07 | 21.00 | 1 | Beryllium Copper, Cond. At |
| 8.210E-08 | 1.218E+07 | 21.00 | 1 | Copper Beryllium, Cond. At |
| 8.535E-08 | 1.172E+07 | 20.20 | 1 | Lithium |
| 9.473E-08 | 1.056E+07 | 18.20 | 1 | Osmium |
| 9.579E-08 | 1.044E+07 | 18.00 | 1 | Nickel "A" |
| 9.579E-08 | 1.044E+07 | 18.00 | 1 | Phos. Bronze, 5% Phos. Grade A |
| 9.579E-08 | 1.044E+07 | 18.00 | 2 | Iron |
| 9.579E-08 | 1.044E+07 | 18.00 | 1 | Brass, Leaded Semi Red |
| 9.579E-08 | 1.044E+07 | 18.00 | 1 | Leaded Semi Red Brass |
| 9.579E-08 | 1.044E+07 | 18.00 | 1 | Bronze Phos., 5% Phos. Grade A |
| 9.852E-08 | 1.015E+07 | 17.50 | 1 | Bronze Aluminum, 5% Aluminum (Annealed) |
| 9.852E-08 | 1.015E+07 | 17.50 | 1 | Aluminum - Bronze, 5% Aluminum (Annealed) |
| 1.002E-07 | 9.976E+06 | 17.20 | 1 | Magnesium, A231 |
| 1.014E-07 | 9.860E+06 | 17.00 | 1 | Beryllium Copper, Cond. A |
| 1.014E-07 | 9.860E+06 | 17.00 | 1 | Copper Beryllium, Cond. "A" |
| 1.039E-07 | 9.628E+06 | 16.60 | 1 | Silver, Tin Solder |
| 1.039E-07 | 9.628E+06 | 16.60 | 1 | Tin, Silver Solder |
| 1.039E-07 | 9.628E+06 | 16.60 | 1 | Solder, Tin Silver |
| 1.059E-07 | 9.442E+06 | 16.28 | 1 | Platinum |
| 1.078E-07 | 9.280E+06 | 16.00 | 1 | Palladium |
| 1.105E-07 | 9.048E+06 | 15.60 | 1 | Iron Ignot (99.9% Fe) |
| 1.105E-07 | 9.048E+06 | 15.60 | 1 | Ingot Iron (99.9% Fe) |
| 1.149E-07 | 8.700E+06 | 15.00 | 1 | Tin, Pure |
| 1.149E-07 | 8.700E+06 | 15.00 | 1 | Magnesium Alloys (Cast) |
| 1.181E-07 | 8.468E+06 | 14.60 | 1 | Magnesium, A2 80 |
| 1.197E-07 | 8.352E+06 | 14.40 | 1 | Selenium |
| 1.232E-07 | 8.120E+06 | 14.00 | 1 | Bronze, Leaded Tin |
| 1.232E-07 | 8.120E+06 | 14.00 | 1 | Leaded Tin Bronze |
| 1.232E-07 | 8.120E+06 | 14.00 | 1 | Tin (Leaded), Bronze |
| 1.232E-07 | 8.120E+06 | 14.00 | 1 | Aluminum - Bronze |
| 1.232E-07 | 8.120E+06 | 14.00 | 1 | Bronze Aluminum |
| 1.240E-07 | 8.062E+06 | 13.90 | 1 | Tantalum |
| 1.268E-07 | 7.888E+06 | 13.60 | 1 | Nickel - Platinum Alloys |
| 1.268E-07 | 7.888E+06 | 13.60 | 1 | Platinum - Nickel Alloys |
| 1.306E-07 | 7.656E+06 | 13.20 | 1 | Columbium |
| 1.326E-07 | 7.540E+06 | 13.00 | 1 | Phos. Bronze, 8% Phos. Grade C |
| 1.326E-07 | 7.540E+06 | 13.00 | 1 | Bronze Phos., 8% Phos. Grade C |
| 1.347E-07 | 7.424E+06 | 12.80 | 1 | Magnesium, A251 |
| 1.368E-07 | 7.308E+06 | 12.60 | 1 | Aluminum - Bronze, 10% Aluminum (Annealed) |
| 1.368E-07 | 7.308E+06 | 12.60 | 1 | Bronze Aluminum, 10% Aluminum (Annealed) |
| 1.379E-07 | 7.250E+06 | 12.50 | 1 | Magnesium, T454 |

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|---|---|---|---|---|
| 1.402E-07 | 7.134E+06 | 12.30 | 1 | Magnesium, A261 |
| 1.437E-07 | 6.960E+06 | 12.00 | 1 | Bronze, Silicon Type B (Annealed) |
| 1.437E-07 | 6.960E+06 | 12.00 | 1 | Silicon Bronze, Type B (Annealed) |
| 1.437E-07 | 6.960E+06 | 12.00 | 1 | Brass, High Strength Yellow |
| 1.449E-07 | 6.902E+06 | 11.90 | 1 | Antimonial Tin Solder |
| 1.449E-07 | 6.902E+06 | 11.90 | 1 | Tin Solder (Antimonial) |
| 1.449E-07 | 6.902E+06 | 11.90 | 1 | Solder, Antimonial Tin |
| 1.486E-07 | 6.728E+06 | 11.60 | 1 | Platinum, Commercial |
| 1.553E-07 | 6.438E+06 | 11.10 | 1 | White Metal |
| 1.567E-07 | 6.380E+06 | 11.00 | 1 | Phos. Bronze, 10% Phos. Grade D |
| 1.567E-07 | 6.380E+06 | 11.00 | 1 | Bronze, Leaded Tin Bearing |
| 1.567E-07 | 6.380E+06 | 11.00 | 2 | Bronze, Phos. |
| 1.567E-07 | 6.380E+06 | 11.00 | 1 | Bronze Phos., 10% Phos. Grade D |
| 1.567E-07 | 6.380E+06 | 11.00 | 2 | Phos. Bronze |
| 1.567E-07 | 6.380E+06 | 11.00 | 1 | Leaded Tin Bearing Bronze |
| 1.567E-07 | 6.380E+06 | 11.00 | 1 | Solder, 50-50 Soft |
| 1.596E-07 | 6.264E+06 | 10.80 | 1 | Magnesium, AZ80BTA |
| 1.611E-07 | 6.206E+06 | 10.70 | 1 | Steel, Cast |
| 1.759E-07 | 5.684E+06 | 9.80 | 1 | Solder, 20-80 Soft |
| 1.771E-07 | 5.647E+06 | 9.74 | 4 | Copper 90%, Nickel 10% |
| 1.895E-07 | 5.278E+06 | 9.10 | 1 | Platinum - Iridium Alloys |
| 1.895E-07 | 5.278E+06 | 9.10 | 1 | Iridium - Platinum Alloys |
| 1.916E-07 | 5.220E+06 | 9.00 | 1 | Magnesium Cast Alloys |
| 1.959E-07 | 5.104E+06 | 8.80 | 1 | Solder, 5-95 Soft |
| 1.959E-07 | 5.104E+06 | 8.80 | 1 | Chromium |
| 2.053E-07 | 4.872E+06 | 8.40 | 2 | Lead |
| 2.077E-07 | 4.814E+06 | 8.30 | 1 | Lead, Corrodine |
| 2.077E-07 | 4.814E+06 | 8.30 | 1 | Corrodine Lead |
| 2.188E-07 | 4.570E+06 | 7.88 | 1 | Lead, 1% Antimonial (Quenched & Aged) |
| 2.188E-07 | 4.570E+06 | 7.88 | 1 | Antimonial Lead, 1% (Quenched and Aged) |
| 2.239E-07 | 4.466E+06 | 7.70 | 1 | Lead, Hard (Quenched & Aged) |
| 2.330E-07 | 4.292E+06 | 7.40 | 1 | Nickel - Platinum Alloys |
| 2.330E-07 | 4.292E+06 | 7.40 | 1 | Platinum - Nickel Alloys |
| 2.463E-07 | 4.060E+06 | 7.00 | 1 | Silicon Bronze, Type A (Annealed) |
| 2.463E-07 | 4.060E+06 | 7.00 | 1 | Bronze, Silicon Type A (Annealed) |
| 2.612E-07 | 3.828E+06 | 6.60 | 1 | Vanadium |
| 2.874E-07 | 3.480E+06 | 6.00 | 1 | Silver, 18% Nickel Alloy A |
| 2.874E-07 | 3.480E+06 | 6.00 | 1 | Uranium |
| 2.874E-07 | 3.480E+06 | 6.00 | 1 | Nickel, 18% Nickel Sil |
| 2.874E-07 | 3.480E+06 | 6.00 | 1 | Babbit, Lead Base |
| 3.135E-07 | 3.190E+06 | 5.50 | 1 | Platinum - Ruthenium (Jewelry Grade) |
| 3.135E-07 | 3.190E+06 | 5.50 | 1 | Ruthenium - Platinum (Jewelry Grade) |
| 3.316E-07 | 3.016E+06 | 5.20 | 1 | Platinum - Iridium Alloys, 18% Nickel Silve |
| 3.316E-07 | 3.016E+06 | 5.20 | 1 | Iridium - Platinum Alloys, 18% Nickel Silve |
| 3.748E-07 | 2.668E+06 | 4.60 | 1 | Nickel 30% - Cupro |
| 3.748E-07 | 2.668E+06 | 4.60 | 1 | Cupro - Nickel 30% |
| 3.831E-07 | 2.610E+06 | 4.50 | 2 | Nickel 30%, Copper 70% |
| 3.831E-07 | 2.610E+06 | 4.50 | 2 | Copper 70%, Nickel 30% |
| 3.918E-07 | 2.552E+06 | 4.40 | 1 | Antimony |
| 4.105E-07 | 2.436E+06 | 4.20 | 1 | Tin, Foil |
| 4.105E-07 | 2.436E+06 | 4.20 | 1 | Zirconium |
| 4.310E-07 | 2.320E+06 | 4.00 | 1 | Ruthenium - Platinum (Contact Grade) |
| 4.310E-07 | 2.320E+06 | 4.00 | 1 | Platinum - Ruthenium (Contact Grade) |
| 4.789E-07 | 2.088E+06 | 3.60 | 2 | Monel |
| 4.816E-07 | 2.076E+06 | 3.58 | 1 | Monel |
| 4.898E-07 | 2.042E+06 | 3.52 | 1 | Constantan |
| 5.071E-07 | 1.972E+06 | 3.40 | 2 | Zirconium |
| 5.562E-07 | 1.798E+06 | 3.10 | 2 | Titanium |
| 5.945E-07 | 1.682E+06 | 2.90 | 1 | Steel, High Alloy |
| 6.897E-07 | 1.450E+06 | 2.50 | 1 | Steel, 304 Stainless |
| 6.897E-07 | 1.450E+06 | 2.50 | 2 | Steel, 304 Stainless |
| 7.184E-07 | 1.392E+06 | 2.40 | 1 | Steel, 347 Stainless |
| 7.184E-07 | 1.392E+06 | 2.40 | 2 | Zircaloy - 2 |
| 7.496E-07 | 1.334E+06 | 2.30 | 1 | Steel, 316 Stainless |
| 7.837E-07 | 1.276E+06 | 2.20 | 1 | Titanium |
| 9.579E-07 | 1.044E+06 | 1.80 | 1 | Mercury |
| 9.796E-07 | 1.021E+06 | 1.76 | 1 | Inconel |
| 1.014E-06 | 9.860E+05 | 1.70 | 2 | Inconel 600 |
| 1.149E-06 | 8.700E+05 | 1.50 | 1 | Hastelloy "D" |
| 1.149E-06 | 8.700E+05 | 1.50 | 2 | Hastelloy "X" |
| 1.232E-06 | 8.120E+05 | 1.40 | 2 | Waspaloy |
| 1.232E-06 | 8.120E+05 | 1.40 | 1 | Hastelloy "A" |
| 1.326E-06 | 7.540E+05 | 1.30 | 1 | Hastelloy "B" & "C" |

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|---|---|---|---|---|
| 1.724E-06 | 5.800E+05 | 1.00 | 2 | Titanium, 6AL-4V |
| 7.837E-06 | 1.276E+05 | 0.22 | 1 | Graphite |