

Physical Properties of Various Metals and Alloys

| Metal | Symbol | Melting Point | | Specific gravity (g/cc) | Weight per cu. in. (Troy oz.) |
|-------------|--------|---------------|------|-------------------------|-------------------------------|
| | | °F | °C | | |
| Aluminum | Al | 1220 | 660 | 2.70 | 1.423 |
| Antimony | Sb | 1168 | 631 | 6.62 | 3.488 |
| Barium | Ba | 1344 | 729 | 3.50 | 1.844 |
| Beryllium | Be | 2354 | 1290 | 1.82 | 0.959 |
| Bismuth | Bi | 520 | 271 | 9.80 | 5.164 |
| Boron | B | 4172 | 2300 | 2.30 | 1.212 |
| Cadmium | Cd | 610 | 321 | 8.65 | 4.558 |
| Calcium | Ca | 1542 | 839 | 1.55 | 0.817 |
| Carbon | C | | | 2.22 | 1.170 |
| Cerium | Ce | 1468 | 798 | 6.69 | 3.525 |
| Chromium | Cr | 3407 | 1875 | 7.14 | 3.762 |
| Cobalt | Co | 2723 | 1495 | 8.90 | 4.689 |
| Copper | Cu | 1985 | 1085 | 8.94 | 4.710 |
| Gold | Au | 1947 | 1064 | 19.30 | 10.169 |
| 18K green | | 1810 | 988 | 15.90 | 8.378 |
| 18K yellow | | 1701 | 927 | 15.58 | 8.209 |
| 18K white | | 1729 | 943 | 14.64 | 7.714 |
| 18K red | | 1656 | 902 | 15.18 | 7.998 |
| 14K green | | 1765 | 963 | 14.20 | 7.482 |
| 14K yellow | | 1614 | 879 | 13.07 | 6.887 |
| 14K white | | 1825 | 996 | 12.61 | 6.644 |
| 14K red | | 1715 | 935 | 13.26 | 6.987 |
| 10K green | | 1580 | 860 | 11.03 | 5.812 |
| 10K yellow | | 1665 | 907 | 11.57 | 6.096 |
| 10K white | | 1974 | 1079 | 11.07 | 5.833 |
| 10K red | | 1760 | 960 | 11.59 | 6.107 |
| Indium | In | 315 | 157 | 7.31 | 3.852 |
| Iridium | Ir | 4437 | 2447 | 22.65 | 11.934 |
| Iron (pure) | Fe | 2800 | 1538 | 7.87 | 4.147 |
| Lead | Pb | 621 | 327 | 11.35 | 5.980 |
| Lithium | Li | 358 | 181 | 0.53 | 0.279 |
| Magnesium | Mg | 1202 | 650 | 1.74 | 0.917 |
| Manganese | Mn | 2271 | 1244 | 7.20 | 3.794 |
| Mercury | Hg | -38 | -39 | 13.55 | 7.139 |
| Molybdenum | Mb | 4730 | 2610 | 10.20 | 5.374 |
| Nickel | Ni | 2647 | 1453 | 8.85 | 4.663 |
| Niobium | Nb | 4474 | 2468 | 8.57 | 4.516 |
| Osmium | Os | 4892 | 2700 | 22.48 | 11.845 |
| Palladium | Pd | 2826 | 1552 | 12.00 | 6.323 |
| Phosphorous | P | 111 | 44 | 1.82 | 0.959 |
| Platinum | Pt | 3216 | 1769 | 21.45 | 11.302 |
| Potassium | K | 145 | 63 | 0.86 | 0.453 |
| Rhenium | Re | 5756 | 3180 | 21.00 | 11.065 |
| Rhodium | Rh | 3565 | 1963 | 12.50 | 6.586 |

| | | | | | |
|-----------|----|------|------|-------|--------|
| Samarium | Sm | 1965 | 1074 | 7.70 | 4.057 |
| Selenium | Se | 423 | 217 | 4.81 | 2.534 |
| Silicon | Si | 2570 | 1410 | 2.40 | 1.265 |
| Silver | Ag | 1764 | 962 | 10.50 | 5.532 |
| Sodium | Na | 208 | 98 | 0.97 | 0.511 |
| Strontium | Sr | 1414 | 768 | 2.60 | 1.370 |
| Sulfur | S | 235 | 113 | 2.07 | 1.091 |
| Tantalum | Ta | 5425 | 2996 | 16.60 | 8.747 |
| Tellurium | Te | 842 | 450 | 6.24 | 3.288 |
| Thalium | Tl | 577 | 303 | 11.85 | 6.244 |
| Thorium | Th | 3191 | 1755 | 11.50 | 6.059 |
| Tin | Sn | 450 | 232 | 7.30 | 3.846 |
| Titanium | Ti | 3034 | 1668 | 4.50 | 2.371 |
| Tungsten | W | 6170 | 3410 | 19.30 | 10.169 |
| Uranium | U | 2563 | 1406 | 18.70 | 9.853 |
| Vanadium | V | 3452 | 1900 | 5.68 | 2.993 |
| Zinc | Zn | 788 | 420 | 7.14 | 3.762 |
| Zirconium | Zr | 3366 | 1852 | 6.40 | 3.372 |

Casting - Wax to Metal Factors

| Metal | Factor |
|-----------------|---------------|
| Brass, Bronze, | |
| Copper | 9.00 |
| Sterling Silver | 10.40 |
| Fine Silver | 10.60 |
| 10K Gold | 11.60 |
| 14K Gold | 13.40 |
| 18K Gold | 15.50 |
| 22K Gold | 17.30 |
| Fine Gold | 19.30 |
| Platinum | 21.40 |
| Palladium | 12.20 |