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| --- | --- | --- | --- | --- |
| **Material** | **Symbol** | **Melting Temperature (°C)** | **Density (bulk, g/cm3)** | **Z-Ratio** |
| Aluminum | Al | 660 | 2.70 | 1.08 |
| Antimony | Sb | 631 | 6.62 | 0.768 |
| Arsenic | As | 612 | 5.73 | 0.966 |
| Barium | Ba | 729 | 3.5 | 2.1 |
| Beryllium | Be | 1287 | 1.85 | 0.543 |
| Bismuth | Bi | 271 | 9.78 | 0.79 |
| Boron | B | 2067 | 2.535 | 0.389 |
| Cadmium | Cd | 321 | 8.65 | 0.682 |
| Cadmium sulfide | CdS | 1750 | 4.83 | 1.02 |
| Cadmium telluride | CdTe | 1041 | 6.20 | 0.980 |
| Calcium | Ca | 839 | 1.55 | 2.62 |
| Calcium fluoride | CaF2 | 1360 | 3.18 | 0.775 |
| Carbon (diamond) | C | 3550 | 3.52 | 0.22 |
| Carbon (graphite) | C | 3652 | 2.25 | 3.26 |
| Chromium | Cr | 1857 | 7.20 | 0.305 |
| Cobalt | Co | 1495 | 8.71 | 0.343 |
| Copper | Cu | 1083 | 8.93 | 0.437 |
| Copper(I) Sulfide (Alpha) | Cu2S | 1100 | 5.6 | 0.69 |
| Copper(I) Sulfide (Beta) | Cu2S | 1100 | 5.8 | 0.67 |
| Copper(II) Sulfide | CuS | 1100 | 4.6 | 0.82 |
| Gallium | Ga | 30 | 5.93 | 0.593 |
| Gallium arsenide | GaAs | 1238 | 5.31 | 1.59 |
| Germanium | Ge | 937 | 5.4 | 0.516 |
| Gold | Au | 1063 | 19.3 | 0.381 |
| Gold Germanide | AuGe(12%) | - | 17.63 | 0.3972 |
| Indium | In | 157 | 7.24 | 0.841 |
| Indium antimonide | InSb | 535 | 5.76 | 0.769 |
| Indium tinide | InSn(80-20wt%) | - | 7.25 | 0.8176 |
| Iridium | Ir | 2434 | 22.4 | 0.129 |
| Iron | Fe | 1536 | 7.86 | 0.349 |
| Lead | Pb | 327 | 11.342 | 1.13 |
| Lead sulfide | PbS | 1114 | 7.50 | 0.566 |
| Lithium | Li | 181 | 0.534 | 5.9 |
| Lithium fluoride | LiF | 896 | 2.64 | 0.774 |
| Magnesium | Mg | 649 | 1.74 | 1.61 |
| Magnesium oxide | MgO | 2642 | 3.58 | 0.411 |
| Manganese | Mn | 1244 | 7.44 | 0.377 |
| Manganese Sulfide | MnS | - | 3.99 | 0.94 |
| **Material** | **Symbol** | **Melting Temperature (°C)** | **Density (bulk, g/cm3)** | **Z-Ratio** |
| Mercury | Hg | -39 | 13.6 | 0.74 |
| Molybdenum | Mo | 2617 | 10.2 | 0.257 |
| Nickel | Ni | 1453 | 8.85 | 0.331 |
| Nickel chromide | NiCr(80-20wt%) | - | 8.52 | 0.3258 |
| Niobium | Nb | 2467 | 8.57 | 0.493 |
| Palladium | Pd | 1552 | 12.16 | 0.357 |
| Platinum | Pt | 1770 | 21.37 | 0.245 |
| Potassium chloride | KCl | 770 | 1.98 | 2.05 |
| Selenium | Se | 221 | 4.82 | 0.864 |
| Silicon | Si | 1412 | 2.34 | 0.712 |
| Silicon dioxide (fused quartz) | SiO2 | 1610 | 2.20 | 1.07 |
| Silicon monoxide | SiO | 1702 | 2.13 | 0.87 |
| Silver | Ag | 961 | 10.492 | 0.529 |
| Silver bromide | AgBr | 432 | 6.47 | 1.18 |
| Silver chloride | AgCl | 455 | 5.56 | 1.32 |
| Sodium | Na | 98 | 0.971 | 4.8 |
| Sodium chloride | NaCl | 800 | 2.17 | 1.57 |
| Sulfur | S8 | 115 | 2.07 | 2.29 |
| Tantalum | Ta | 2977 | 16.6 | 0.262 |
| Tellurium | Te | 450 | 6.25 | 0.900 |
| Tin | Sn | 232 | 7.30 | 0.724 |
| Titanium | Ti | 1670 | 4.50 | 0.628 |
| Titanium oxide | TiO | - | 4.9 | N/A |
| Titanium dioxide | TiO2 | 1825 | 4.26 | 0.40 |
| Tungsten | W | 3380 | 19.3 | 0.163 |
| Tungsten carbide | W2C | 2860 | 15.6 | 0.151 |
| Uranium | U | 1132 | 18.7 | 0.238 |
| Vanadium | V | 1902 | 5.87 | 0.530 |
| Ytterbium | Yb | 824 | 6.96 | 1.13 |
| Yttrium | Y | 1526 | 4.48 | 0.835 |
| Zinc | Zn | 420 | 7.14 | 0.514 |
| Zinc oxide | ZnO | 1975 | 5.61 | 0.556 |
| Zinc selenide | ZnSe | 1100 | 5.42 | 0.722 |
| Zinc sulfide | ZnS | 1700 | 4.10 | 0.775 |
| Zirconium | Zr | 1852 | 6.53 | 0.60 |
| **Material** | **Symbol** | **Melting Temperature (°C)** | **Density (bulk, g/cm3)** | **Z-Ratio** |