| Metal | Temperature Range *($^oF$)* | Thermal Expansion *(microinch/(in $^oF$))* |
|---|---|---|
| Admiralty Brass | 68 - 572 | 11.2 |
| Aluminum | 68 - 212 | 13.1 |
| Aluminum Bronze | 68 - 572 | 9.0 |
| Antimony | | 5 |
| Beryllium | | 6.7 |
| Beryllium Copper | 68 - 212 | 9.3 |
| Bismuth | | 7.2 |
| Cast Iron, gray | 32 - 212 | 5.8 |
| Chromium | | 3.3 |
| Cobalt | | 6.7 |
| Copper | 68 - 572 | 9.8 |
| Cupronickel | 68 - 572 | 9.0 |
| Gold | | 7.9 |
| Hastelloy C | 70 - 200 | 5.3 |
| Inconel | 68 - 212 | 6.4 |
| Incoloy | 32 - 212 | 8.0 |
| Iridium | | 3.3 |
| Iron, nodular pearlitic | 68 - 212 | 6.5 |
| Iron, pure | 68 - 212 | 6.8 |
| Magnesium | | 14 |
| Manganese | | 12 |
| Manganese Bronze | 68 - 572 | 11.8 |
| Molybdenum | | 3.0 |
| Monel | 32 - 212 | 7.8 |
| Nickel Wrought | 77 - 212 | 7.4 |
| Niobium (Columbium) | | 3.9 |

| | | |
|---|---|---|
| Red Brass | 68 - 572 | 10.4 |
| Osmium | | 2.8 |
| Platinum | | 5 |
| Plutonium | | 19.84 |
| Potassium | | 46 |
| Rhodium | | 4.4 |
| Selenium | | 21 |
| Silicon | | 2.8 |
| Silver | | 11 |
| Sodium | | 39 |
| Tantalum | | 3.6 |
| Thorium | | 6.7 |
| Tin | 32 - 212 | 12.8 |
| Titanium | 68 - 200 | 4.8 |
| Tungsten | | 2.5 |
| Uranium | | 7.4 |
| Vanadium | | 4.4 |
| Wrought Carbon Steel | 70 - 800 | 7.8 |
| Yellow Brass | 68 - 572 | 11.3 |
| Zinc | | 19 |

- *$T(^oC) = 5/9[T(^oF) - 32]$*
- *1 in (inch) = 25.4 mm*
- *1 ft (foot) = 0.3048 m*