

ELEMENTS COMMON IN CERAMICS

| ELEMENT | SYMBOL | ATOMIC WEIGHT | OXIDE FORMULA | OXIDE MOLECULAR WT |
|--------------------------------------|--------|---------------|---------------------------------------|--------------------|
| Aluminum | Al | 27.0 | Al ₂ O ₃ | 102.0 |
| Antimony (Latin: <i>stibium</i>) | Sb | 121.8 | Sb ₂ O ₃ | 292.0 |
| Barium | Ba | 137.3 | BaO | 153.4 |
| Bismuth | Bi | 209.0 | Bi ₂ O ₃ | 465.7 |
| Boron | B | 10.8 | B ₂ O ₃ | 69.6 |
| Cadmium | Cd | 112.4 | CdO | 128.4 |
| Calcium | Ca | 40.0 | CaO | 56.0 |
| Carbon | C | 12.0 | CO ₂ | 44.0 |
| Chlorine | Cl | 35.5 | ClO ₂ | 67.5 |
| Chromium | Cr | 52.0 | Cr ₂ O ₃ | 152.0 |
| Cobalt | Co | 59.0 | CoO | 75.0 |
| Copper (Latin: <i>cuprum</i>) | Cu | 63.5 | CuO | 79.5 |
| Erbium | Er | 167.26 | Er ₂ O ₃ | 382.56 |
| Fluorine | F | 19.0 | - | - |
| Gold (Latin: <i>aurum</i>) | Au | 197.0 | Au ₂ O ₃ | 442.0 |
| Hydrogen | H | 1.0 | H ₂ O | 18.0 |
| Iron (Latin: <i>ferrum</i>) | Fe | 55.8 | FeO Fe ₂ O ₃ | 71.8 159.6 |
| Lead (Latin: <i>plumbum</i>) | Pb | 207.2 | PbO | 223.2 |
| Lithium | Li | 7.0 | Li ₂ O | 30.0 |
| Magnesium | Mg | 24.3 | MgO | 40.3 |

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|---|--------|---------------|---|--------------------|
| Manganese | Mn | 55.0 | MnO | 71.0 |
| Nickel | Ni | 58.7 | NiO | 74.7 |
| Oxygen | O | 16.0 | - | - |
| Phosphorus | P | 31.0 | P ₂ O ₅ | 142.0 |
| Potassium (Neo-Latin <i>kalium</i>) | K | 39.1 | K ₂ O | 94.2 |
| Praseodymium | Pr | 140.9 | PrO ₂ Pr ₆ O ₁₁ | 172.9 1021.5 |
| Selenium | Se | 79.0 | SeO ₂ | 111.0 |
| Silicon | Si | 28.1 | SiO ₂ | 60.1 |
| Silver (Latin: <i>argentum</i>) | Ag | 107.9 | Ag ₂ O | 231.8 |
| Sodium (Latin: <i>natrium</i>) | Na | 23.0 | Na ₂ O | 62.0 |
| Strontium | Sr | 87.6 | SrO | 103.6 |
| Sulfur | S | 32.0 | SO ₂ | 64.0 |
| Tin (Latin: <i>stannum</i>) | Sn | 118.7 | SnO ₂ | 150.7 |
| Titanium | Ti | 48.0 | TiO ₂ | 80.0 |
| Uranium | U | 238.1 | UO ₃ | 286.0 |
| Vanadium | V | 51.0 | V ₂ O ₅ | 182.0 |
| Zinc | Zn | 65.3 | ZnO | 81.3 |
| Zirconium | Zr | 91.2 | ZrO ₂ | 123.2 |