

金属の物理化学的性質

| 名称 | 記号 | 原子量 | 比重 | 融点 () | 電導度 Cu=100 | 一般硬 度 モース | 伸び (%) | 引張り 強さ (Kg/mm ²) | 過電圧 | | 析出量1A/h | | 単極電位 H=O | | |
|--------|----|---------|-------|-----------|---------------|-----------------|-----------|------------------------------------|----------|----------|--------------|------------|-------------|------|--------------------------|
| | | | | | | | | | 水素(v) | 酸素(v) | 重量(g) | 厚さ(μ) | | | |
| アルミニウム | Al | 26.98 | 2.702 | 660.1 | 63.1 | 2.9 | 30-45 | 8 | 0.58 | | 0.335 | | -1.66 | | |
| 銀 | Ag | 107.88 | 10.5 | 960.8 | 106.1 | 2.7 | 55 | 18 | 0.59 | 0.40 | 4.025 | 38.3 | 0.799 | | |
| 金 | Au | 196.96 | 19.3 | 1063 | 74.9 | 2.5 | 45 | 10 | 0.12 | 0.52 | 7.357 | | | | |
| バリウム | Ba | 137.34 | 3.5 | 850 | | | | | | | 2.562 | | -2.92 | | |
| ビスマス | Bi | 2098.98 | 9.80 | 271.3 | 1.5 | 2.5 | | | 0.68 | | 2.599 | 26.5 | 0.32 | | |
| カルシウム | Ca | 40.08 | 1.55 | 850 | 37.7 | 1.5 | | | | | 0.748 | | -2.84 | | |
| カドミウム | Cd | 112.40 | 8.642 | 320.9 | 22.8 | | 20 | 6 | 0.99 | 0.42 | 2.097 | 24.3 | -0.402 | | |
| コバルト | Co | 58.93 | 8.9 | 1492 | 17.8 | | | | | | 1.099 | 0.733 | -0.27 | | |
| 銅 | Cu | 63.54 | 8.92 | 1083 | 100 | 3.0 | 4-8 | 22 | 0.45-0.5 | 50.25 | 2.371 | 1.185 | 26.6 | 13.3 | 10.52 |
| クロム | Cr | 52.01 | 7.1 | 1905 | 66.5 | 9.0 | | | 7 | | 0.042(効率13%) | 0.6(効率13%) | -0.71 | | |
| 水銀 | Hg | 200.59 | 13.55 | -38. | 1.8 | | | | 0.42 | | 14.84 | | 0.798 | | |
| イリジウム | Ir | 192.2 | 22.4 | 2443 | 32.6 | 6.5 | | | 1.03 | | | | | | |
| カリウム | K | 39.10 | 0.86 | 63.5 | 24.4 | 0.5 | | | | | 1.459 | | | | |
| マグネシウム | Mg | 24.31 | 1.74 | 650 | 40.1 | 2.0 | | | | | 0.454 | | -2.38 | | |
| マンガン | Mn | 54.94 | 7.2 | 1247 | 34.6 | 5.0 | | | | | 1.025 | 0.683 | 14.2 | 9.5 | -1.05 |
| モリブデン | Mo | 95.94 | 10.2 | 2620 | 39.4 | | | | | | | | -0.2 | | |
| ナトリウム | Na | 22.99 | 0.97 | 97.5 | 36.0 | 0.4 | | | R13- | | 0.858 | | -2.713 | | |
| ニッケル | Ni | 58.71 | 8.90 | 1455 | 14.7 | 3.8 | 40-50 | 12 | 0.30 | 0.05-0.1 | 1.059 | 0.730 | 12.2 | 8.2 | -0.23 |
| オスミウム | Os | 190.2 | 22.48 | 2700 | 18.2 | | | | | 2 | | | | | |
| 鉛 | Pb | 207.19 | 11.34 | 327.4 | 8.4 | 1.5 | 50 | 9 | 0.32 | | 3.865 | | 34.1 | | -0.126 |
| パラジウム | Pd | 106.4 | 13.00 | 1555 | 16.0 | 4.8 | | | | 0.30 | 1.82 | | 8.48 | | 0.83 |
| 白金 | Pt | 195.0 | 21.45 | 1773.5 | 15.7 | 4.3 | | 15 | 0.35 | 0.42 | 1.042 | | 13.3 | 8.8 | 1.2 |
| 鉄 | Fe | 55.85 | 7.86 | 1535 | 17.3 | 4.5 | 6 | 25 | 0.01-0.0 | | 0.695 | | 22.7 | | -0.44 |
| アンチモン | Sb | 121.75 | 6.684 | 630.5 | 4.4 | 3.0 | | | 9 | | | | | | -0.67(SbO ₂) |

| | | | | | | | | | | | | | | | |
|--------|----|--------|------|-------|------|-----|-------|-----|---|------|-------|-------|------|------|------------------------|
| けい素 | Si | 28.09 | 2.4 | 2600 | | 7.0 | | | 7 | | 2.214 | 1.107 | 30.3 | 15.2 | |
| すず | Sn | 118.69 | 7.31 | 231.9 | 15.3 | 1.8 | 35-40 | 2 | | 0.40 | | | | | -0.140 |
| ロジウム | Rh | 102.91 | 12.5 | 1966 | 28.8 | | | | | | | | | | 0.6 |
| タンタル | Ta | 180.95 | 16.6 | 3000 | 11.8 | | | | | | | | | | |
| ウラン | U | 238.03 | 18.7 | 1133 | 6.0 | | | 90 | | | | | | | -0.82 |
| チタニウム | Ti | 47.9 | 4.5 | 1800 | 2.1 | | | | | 0.85 | | | | | -1.75 |
| 亜鉛 | Zn | 65.37 | 7.14 | 419.5 | 29.2 | 2.5 | 30 | 15 | | 0.08 | 1.220 | | 17.1 | | -0.763 |
| タンゲステン | W | 183.8 | 19.3 | 3370 | 34.6 | | | 110 | | | 0.93 | | | | -1.1(WO ₄) |
| バナジウム | V | 50.95 | 5.96 | 1726 | 6.7 | | | | | 0.2 | | | | | -1.5 |
| | | | | | | | | | | 0.70 | | | | | |
| | | | | | | | | | | 0.11 | | | | | |