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| Удельное сопротивление и температурный коэффициент сопротивления распространённых металлических материалов   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | | Вещество | Температура t/℃ | Удельное сопротивление | Температурный коэффициент сопротивления αR/℃⁻¹ | | Серебро | 20 | 1.586 | 0.0038(20℃) | | Медь | 20 | 1.678 | 0.00393(20℃) | | Золото | 20 | 2.40 | 0.00324(20℃) | | Алюминий | 20 | 2.6548 | 0.00429(20℃) | | Кальций | 0 | 3.91 | 0.00416(0℃) | | Бериллий | 20 | 4.0 | 0.025(20℃) | | Магний | 20 | 4.45 | 0.0165(20℃) | | Молибден | 0 | 5.2 |  | | Иридий | 20 | 5.3 | 0.003925(0℃~100℃) | | Вольфрам | 27 | 5.65 |  | | Цинк | 20 | 5.196 | 0.00419(0℃~100℃) | | Кобальт | 20 | 6.64 | 0.00604(0℃~100℃) | | Никель | 20 | 6.84 | 0.0069(0℃~100℃) | | Кадмий | 0 | 6.83 | 0.0042(0℃~100℃) | | Индий | 20 | 8.37 |  | | Железо | 20 | 9.71 | 0.00651(20℃) | | Платина | 20 | 10.6 | 0.00374(0℃~60℃) | | Олово | 0 | 11.0 | 0.0047(0℃~100℃) | | Рубидий | 20 | 12.5 |  | | Хром | 0 | 12.9 | 0.003(0℃~100℃) | | Галлий | 20 | 17.4 |  | | Таллий | 0 | 18.0 |  | | Цезий | 20 | 20 |  | | Свинец | 20 | 20.684 | (0.0037620℃~40℃) | | Сурьма | 0 | 39.0 |  | | Титан | 20 | 42.0 |  | | Ртуть | 50 | 98.4 |  | | Марганец | 23~100 | 185.0 |  | | |