

**Table of Resistivity and Conductivity at 20°C of some materials**

<b>Material</b>	<b><math>\rho</math> (<math>\Omega\cdot\text{m}</math>) at 20 °C Resistivity</b>	<b><math>\sigma</math> (S/m) at 20 °C Conductivity</b>
Silver	$1.59\times 10^{-8}$	$6.30\times 10^7$
Copper	$1.68\times 10^{-8}$	$5.96\times 10^7$
Gold	$2.44\times 10^{-8}$	$4.10\times 10^7$
Aluminum	$2.82\times 10^{-8}$	$3.5\times 10^7$
Calcium	$3.36\times 10^{-8}$	$2.98\times 10^7$
Tungsten	$5.60\times 10^{-8}$	$1.79\times 10^7$
Zinc	$5.90\times 10^{-8}$	$1.69\times 10^7$
Nickel	$6.99\times 10^{-8}$	$1.43\times 10^7$
Lithium	$9.28\times 10^{-8}$	$1.08\times 10^7$
Iron	$1.0\times 10^{-7}$	$1.00\times 10^7$
Platinum	$1.06\times 10^{-7}$	$9.43\times 10^6$
Tin	$1.09\times 10^{-7}$	$9.17\times 10^6$
Carbon steel	$(10^{10})$	$1.43\times 10^{-7}$
Lead	$2.2\times 10^{-7}$	$4.55\times 10^6$
Titanium	$4.20\times 10^{-7}$	$2.38\times 10^6$
Stainless steel	$6.9\times 10^{-7}$	$1.45\times 10^6$
Mercury	$9.8\times 10^{-7}$	$1.02\times 10^6$
Nichrome	$1.10\times 10^{-6}$	$9.09\times 10^5$
Carbon (amorphous)	$5\times 10^{-4}$ to $8\times 10^{-4}$	1.25 to $2\times 10^3$
Carbon (diamond)	$1\times 10^{12}$	$\sim 10^{-13}$
Germanium	$4.6\times 10^{-1}$	2.17
Sea water	$2\times 10^{-1}$	4.8
Drinking water	$2\times 10^1$ to $2\times 10^3$	$5\times 10^{-4}$ to $5\times 10^{-2}$
Silicon	$6.40\times 10^2$	$1.56\times 10^{-3}$
Wood (damp)	$1\times 10^3$ to 4	$10^{-4}$ to $10^{-3}$
Deionized water	$1.8\times 10^5$	$5.5\times 10^{-6}$
Glass	$10\times 10^{10}$ to $10\times 10^{14}$	$10^{-11}$ to $10^{-15}$
Hard rubber	$1\times 10^{13}$	$10^{-14}$
Wood (oven dry)	$1\times 10^{14}$ to 16	$10^{-16}$ to $10^{-14}$
Sulfur	$1\times 10^{15}$	$10^{-16}$
Air	$1.3\times 10^{16}$ to $3.3\times 10^{16}$	$3\times 10^{-15}$ to $8\times 10^{-15}$
Paraffin wax	$1\times 10^{17}$	$10^{-18}$
Fused quartz	$7.5\times 10^{17}$	$1.3\times 10^{-18}$
Teflon	$10\times 10^{22}$ to $10\times 10^{24}$	$10^{-25}$ to $10^{-23}$