

### CONDUCTIVITY OF COMMON MATERIALS

Material	$\sigma$ (mhos per meter)
Aluminum	$3.82 \times 10^7$
Brass	$1.5 \times 10^7$
Carbon steel	$0.6 \times 10^7$
Clay	$5 \times 10^{-3}$
Constantan	$0.226 \times 10^7$
Copper	$5.80 \times 10^7$
Diamond	$2 \times 10^{-13}$
Ferrite (typical)	100
Germanium	$0.22 \times 10^7$
Gold	$4.10 \times 10^7$
Granite	$10^{-6}$
Graphite	$7 \times 10^4$
Iron	$1.03 \times 10^7$
Limestone	$10^{-2}$
Marble	$10^{-8}$
Nichrome	$0.1 \times 10^7$
Nickel	$1.45 \times 10^7$
Quartz	$10^{-17}$
Silicon	1,200
Silver	$6.17 \times 10^7$
Soil (sandy)	$10^{-5}$
Solder	$0.7 \times 10^7$
Stainless steel	$0.11 \times 10^7$
Tungsten	$1.82 \times 10^7$
Water (distilled)	$10^{-4}$
Water (fresh)	$10^{-3}$
Water (sea)	5
Zinc	$1.67 \times 10^7$