

# Resistivity Units to % IACS

From Resistivity Units (N)	To % IACS
Microohm - centimeters	$1/N \times 172.41$
Microohm - inches	$1/N \times 67.879$
Ohms (mil, foot)	$1/N \times 1037.1$
Ohms (mile, pound)	$1/N \times 9844.8 \times d^*$
Ohms – centimeters	$1/N \times 1.7241/10^{-4}$
Ohms – meters	$1/N \times 1.7241/10^{-6}$
Ohms – (meter, mm <sup>2</sup> )	$1/N \times 1.7241$
Ohms – (meter, gram)	$1/N \times 1.7241 \times d^*$
Relative Resistivity	$100/N$
D* stands for density in grams per cubic centimeter	

# Conductivity Units to %IACS

From Conductivity Units (N)	To % IACS
Meters (Ohm, mm <sup>2</sup> )	$N \times 1.7241$
Megmhos / centimeter	$N \times 172.41$
Megmhos / inch	$N \times 67.879$
Mhos / centimeter	$N \times 1.7241 \times 10^{-4}$
Mhos / meter	$N \times 1.7241 \times 10^{-6}$
Mhos (meter, gram)	$N \times 1.7241 \times d^*$
Micromhos / centimeter	$N \times 1.7241 \times 10^{-10}$
%IACS, weight basis	$N \times 0.11249 \times d^*$
D* stands for density in grams per cubic centimeter	

# %IACS to Resistivity Units

From N %IACS	To Resistivity Units
$1/N \times 172.41$	Microohm - centimeters
$1/N \times 67.879$	Microohm - inches
$1/N \times 1037.1$	Ohms (mil, foot)
$1/N \times (9844.8 \times d^*)$	Ohms (mile, pound)
$1/N \times 1.7241 \times 10^{-4}$	Ohms - centimeters
$1/N \times 1.7241$	Ohm - meters
$1/N \times 1.7241 \times 10^{-6}$	Ohms (meter, mm <sup>2</sup> )
$1/N \times 1.7421 \times d^*$	Ohms (meter, gram)
$1/N \times 100$	Relative Resistivity
D* stands for density in grams per cubic centimeter.	

# %IACS to Conductivity Units

From N %IACS	To Conductivity Units
$N \times 0.5800$	Meters (Ohm, mm <sup>2</sup> )
$N \times 5.800 \times 10^{-3}$	Megmhos / centimeter
$N \times 1.4732 \times 10^{-2}$	Megmhos / inch
$N \times 5.800 \times 10^3$	Mhos / centimeter
$N \times 5.800 \times 10^5$	Mhos / meter
$N \times 0.5800 / d^*$	Mhos (meter, gram)
$N \times 5.800 \times 10^9$	Micromhos / centimeter
$N \times 8.89 / d^*$	%IACS, weight basis
D* stands for density in grams per cubic centimeter	