

PHYSICS DATA

Electrical Resistivities at 20°C and Temperature Coefficients of Resistance per °C

	Resistivity ohm metre	Temperature Coefficient
Elements		
Aluminum	3.21×10^{-8}	38.0×10^{-4}
Antimony	40.5×10^{-8}	
Bismuth	119.0×10^{-8}	42.0×10^{-4}
Cobalt	9.7×10^{-8}	33.0×10^{-4}
Copper, Drawn	1.78×10^{-8}	42.8×10^{-4}
Annealed	1.59×10^{-8}	42.8×10^{-4}
Gold	2.42×10^{-8}	40.0×10^{-4}
Iron, Pure	11.5×10^{-8}	62.0×10^{-4}
Steel 0.1C	20.0×10^{-8}	29.0×10^{-4}
Lead	20.8×10^{-8}	43.0×10^{-4}
Mercury	95.76×10^{-8}	9.0×10^{-4}
Nickel 97%	11.8×10^{-8}	27.0×10^{-4}
Silver	1.65×10^{-8}	40.0×10^{-4}
Tin	11.3×10^{-8}	45.0×10^{-4}
Zinc	6.1×10^{-8}	37.0×10^{-4}
Alloys		
Brass	8.0×10^{-8}	10.0×10^{-4}
German Silver	28.0×10^{-8}	4.4×10^{-4}
Manganin	43.0×10^{-8}	0.1×10^{-4}
Nichrome	110.0×10^{-8}	1.7×10^{-4}
Phosphor Bronze	8.0×10^{-8}	
Miscellaneous		
Graphite	3.0×10^{-6}	
Ebonite	2.0×10^{17}	
Glass, Pyrex	10^{16}	
Soda	5.0×10^{13}	
Mica	9.0×10^{17}	
Paraffin Wax	3.0×10^{20}	
Quartz	1.4×10^{16}	
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German Silver	60 Cu, 15 Ni, 25 Zn	
Manganin	84 Cu, 4 Ni, 12 Mn	