



Specific resistivity table

Material	Resistivity ρ (ohm m)		Temperature coefficient α per degree C	Conductivity σ $\times 10^7 / \Omega\text{m}$	Ref
Silver	1.59	$\times 10^{-8}$	.0038	6.29	3
Copper	1.68	$\times 10^{-8}$	.00386	5.95	3
Copper	1.724	$\times 10^{-8}$	...	...	4
Copper, annealed	1.72	$\times 10^{-8}$	.00393	5.81	2
Aluminum	2.65	$\times 10^{-8}$	.00429	3.77	1
Tungsten	5.6	$\times 10^{-8}$	.0045	1.79	1
Iron	9.71	$\times 10^{-8}$	.00651	1.03	1
Platinum	10.6	$\times 10^{-8}$	.003927	0.943	1
Manganin	48.2	$\times 10^{-8}$	.000002	0.207	1
Lead	22	$\times 10^{-8}$	...	0.45	1
Mercury	98	$\times 10^{-8}$	.0009	0.10	1
Nichrome (Ni,Fe,Cr alloy)	100	$\times 10^{-8}$	.0004	0.10	1
Constantan	49	$\times 10^{-8}$	...	0.20	1
Carbon (graphite)	3-60	$\times 10^{-5}$	-.0005	...	1
Germanium	1-500	$\times 10^{-3}$	-.05	...	1
Silicon	0.1-60	...	-.07	...	1
Glass	1- 10000	$\times 10^9$	...	...	1
Quartz (fused)	7.5	$\times 10^{17}$	...	...	1
Hard rubber	1-100	$\times 10^{13}$	...	...	1

© 2025 Creato da Armando caligiuri

Electronic maintainer, electronic project implementer , I.T. consultant

<https://www.armandocaligiuri.it>

Email: questions@armandocaligiuri.it