

Conversion Factors for Converting Data From / To the Metals Listed

Metal	Factor For Time	Factor For Weight	Factor for Efficiency	Supporting Data		
				% Efficiency (Approx.)	Specific Gravity	Lbs. per 1000 amp. hours
Cd ⁺⁺	.508	0.97	1.1	90%	8.65	4.6
Cu ⁺	.463	1.0	1.7	60%	8.93	5.2
Cu ⁺⁺	.926	1.0	1.03	97%	8.93	2.6
Sn ⁺⁺	.406	0.82	1.05	95%	7.3	4.9
Sn ⁺⁺⁺⁺	.812	0.82	1.2	80%	7.3	2.4
Zn ⁺⁺	.721	0.8	1.4	70%	7.1	2.7
Ag ⁺	.322	1.18	1.0	100%	10.5	8.9
Pb ⁺⁺	.364	1.28	1.0	100%	11.35	8.5
Cr ⁺⁺⁺⁺⁺⁺	2.65	0.78	6.6	15%	6.92	.71
Ni ⁺⁺	1.02	96%	8.9

Time to plate at approximate efficiency. To determine actual time which will probably be required, multiply time at 100% efficiency by factor for approximate efficiency.

Example: If time at 100% efficiency for copper is 13 minutes, multiply by 1.66.

Answer: 21.7 minutes.

Determination of weight per square foot. To determine ounces per square foot for a given thickness of metals other than nickel, multiply the figure for nickel given on Table 1 under "ounces per square foot" by "Factor for Weight."

Example: For .0005" thickness of zinc, multiply figure for nickel of 0.37 by factor of 0.8.

Answer: .296 or .30 oz. per square foot.

Helpful Conversion Factors (Approximate)

grams/liter \times .134 = oz./gal.

oz./gal. \times 7.5 = grams/liter

1 oz./ gal. = 6.25 lbs./100 gal.

750 amps./sq. inch cross section = approximate conducting capacity of copper
1200 amp. min./sq. ft. to deposit .001" nickel

415 amp. hrs./lb. nickel

.75 oz. nickel per sq. ft. for .001"

21 sq. ft. per lb. nickel for .001"

1 kilogram = 2.205 lbs.

1 lb. = 453.6 grams



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