



## Conversion Table for Electroplating

Quantity	A Conventional Unit	B Si Unit	To Convert From A to B	To Convert From B to A Multiply by
Coating Thickness	mil (= .001 in.) inch (in.)	µm mm	25.4 25.4	.0394 .0394
Coating Weight	mg/in. <sup>2</sup> mg/in. <sup>2</sup> mg/in. <sup>2</sup> oz/ft <sup>2</sup>	g/m <sup>2</sup> mg/cm <sup>2</sup> kg/m <sup>2</sup> kg/m <sup>2</sup>	1.55 0.155 43.9 0.305	0.645 6.45 .0228 3.28
Current Density	A/ft <sup>2</sup> A/in. <sup>2</sup> A/in. <sup>2</sup>	A/m <sup>2</sup> A/m <sup>2</sup> A/cm <sup>2</sup>	10.76 1550 0.155	.0929 6.45 x 10 <sup>-4</sup> 6.45
Plating rates	A-hr/ft <sup>2</sup> -mil	A-s/m <sup>2</sup> µm	1530	6.55 x 10 <sup>-4</sup>
Volume	gallon fl oz	m <sup>3</sup> liter ml	.00379 3.79 29.6	264 0.264 .0338
Mass Concentration	oz/gal	g/litre kg/m <sup>3</sup>	7.49 7.49	0.134 0.134
Volume Concentration	fl oz/gal	ml/liter cm <sup>3</sup> /liter	7.81 7.81	0.128 0.128
Pressure	1000 psi	MPa (MN/m <sup>2</sup> )	6.89	0.145

ASTM Committee 808, Subcommittee 1.

COMMON ABBREVIATIONS  
AND CONVERSION FACTORS

A = ampere or amp  
ASD = amps/dm<sup>2</sup> (amps per decimeter squared)  
ASF = amps/ft<sup>2</sup> (amps per foot squared)  
fl oz/gal = fluid ounces per gallon  
g/l = grams/liter  
HCD = high current density  
LCD = low current density  
MCD = mid current density  
oz/gal = avoirdupois (dry) ounces per gallon  
ppm = parts per million or milligrams per liter  
tr. oz/gal = troy ounces per gallon

Some relationships between terms:

ASF = ASD (9.26)  
ASD = ASF (0.108)  
tr. oz/gal = g/l (0.12165)  
g/l = 8.22 (tr. oz. gal)  
oz/gal = 0.1333 (g/l)  
gal = fl oz x 0.0078