

**THE GALVANIC SERIES**

<b>ANODIC OR LEAST NOBLE END (ACTIVE)</b>	<b>Millivolts (mV)</b>
Magnesium (Mg)	-1730
Magnesium (2% Manganese [Mn])	-1670
Magnesium (9% Aluminum [Al], 1% Mn, 1.5% Zinc [An])	-1580
Galvanized Iron (hot dipped)	-1140
Zinc Electroplating	-1130
Cadmium (Cd) Zinc Solder (71%/29%)	-1120
Zinc (Zn)	-1050
Cadmium (Cd)	-860
Cadmium Plated Steel (Cd 0.001 in.)	-860
Aluminum (Marine Alloys 5086, 5083, 6061)	-820
Mild or Structural Steel (A36)	-790
Alloy Steel	-740
Aluminum (forged alloy)	-730
Stainless Steel (316, 314, 304, 303, 302 — active, oxygen-starved)	-550
Tin (Sn)	-500
Manganese Bronze, CA-464 Naval Brass (58% Cu, 39% Zn, 1% Alum, 0.25% Mg)	-450
Naval Brass (60% Copper, 39% Zinc)	-450
Yellow Brass	-450
Admiralty Brass (70% Copper, 29% Zinc)	-360
Copper CA-110 (Cu)	-340
Brass (60% copper 40% zinc)	-330
Gunmetal (88% Copper, 12% Tin)	-310
Silicon Bronze (96% Copper, 1.5% Silicon)	-260
Tin Bronze	-260
Lead (Pb)	-240
Copper/Nickel (CA-715 - 70% Cu, 30% Ni)	-200
Aluminum Bronze (90% Copper, 10% aluminum)	-150
Stainless Steel (316, 317, 321, 347, 302, 304 — passive, oxygenated)	-150
Monel 400 & 500	-110
Titanium (Ti)	100
Silver (Ag)	-80
Graphite and Carbon Fiber (C)	(+250)
Platinum (Pt)	(+260)