

Galvanic Corrosion Chart

**Anodic
(least noble)
Corroded**



**Direction
of attack**



**Cathodic
(most noble)
Protected**

Magnesium
Magnesium Alloys
Zinc
Beryllium
Aluminum 1100, 3003, 3004, 5052, 6053
Cadmium
Aluminum 2017, 2024, 2117
Mild Steel 1018, Wrought Iron
HSLA Steel, Cast Iron
Chrome Iron (active)
430 Stainless (active)
302, 303, 321, 347, 410, 416 Stainless Steel (active)
Ni-Resist
316, 317 Stainless (active)
Carpenter 20Cb-3 Stainless (active)
Aluminum Bronze (CA687)
Hastelloy C(active) Inconel 625(active)
Titanium(active)
Lead/Tin Solder
Lead
Tin
Inconel 600 (active)
Nickel (active)
60% Ni 15% Cr (active)
80% Ni 20% Cr (active)
Hastelloy B (active)
Naval Brass (CA464), Yellow Brass (CA268)
Red Brass (CA230), Admiralty Brass (CA443)
Copper (CA102)
Manganese Bronze(CA675), Tin Bronze
410, 416 Stainless(passive) (CA903, 905)
Phosphor Bronze (CA521, 524)
Silicon Bronze (CA651, 655)
Nickel Silver (CA 732, 735, 745, 752, 754, 757, 765, 770, 794)
Cupro Nickel 90-10
Cupro Nickel 80-20
430 Stainless (passive)
Cupro Nickel 70-30
Nickel Aluminum Bronze (CA630, 632)
Monel 400, K500
Silver Solder
Nickel (passive)
60% Ni 15% Cr (passive)
Inconel 600 (passive)
80% Ni 20% Cr (passive)
Chrome Iron (passive)
302, 303, 304, 321, 347 Stainless (passive)
316, 317 Stainless (passive)
Carpenter 20Cb-3 Stainless (passive),
Incoloy 825 (passive)
Silver
Titanium (passive), Hastelloy C & C276 (passive)
Graphite
Zirconium
Gold
Platinum