GALVANIC REACTION CHART

Below is a galvanic reaction chart for dissimilar metals.

Galvanic Corrosion Risk		Contact Metal													
		Magnesium and Alloys	Zinc and Alloys	Aluminum and Alloys	Cadmium	Carbon Steels	Cast Iron	Stainless Steel	Lead, Tin, and Alloys	Nickel	Brasses, Nickel-Silvers	Copper	Bronzes, Cupro-Nickels	Nickel Copper Alloys	Nickel-Chrome Alloys, Titanium, Silver, Graphite, Gold, and Platinum
Corroding Metal	Magnesium and Alloys														
	Zinc and Alloys														
	Aluminum and Alloys														
	Cadmium														
	Carbon Steel														
	Cast Iron														
	Stainless Steels														
	Lead, Tin, and Alloys														
	Nickel														
	Brasses, Nickel-Silvers														
	Copper														
	Bronzes, Cupro-Nickels														
	Nickel Copper Alloys														
	Nickel-Chrome Alloys, Titanium, Silver, Graphite, Gold, and Platinum														

This chart is designed to assist in broadly assessing the risk of galvanic corrosion associated with a given metal coming into contact with another metal. To use the chart, align the metal to be assessed (for the risk of corrosion) in the left column with the Contact Metal listed in the upper row; green represents a lower risk and red represents a higher risk. For a more specific assessment of the risk of galvanic corrosion, please check with other sources.

Please understand that green represents "lower risk" not "no risk." It should be noted that if sacrificial plating is incorporated in the fastener design, then galvanic action can result in the deterioration of the sacrificial coating, rather than of the fastener. We would advise that the suggested fasteners for dissimilar-metal applications would incorporate our GRABBERGARD® coating which utilizes both barrier and sacrificial coatings to minimize the chance and/or rate of corrosion. The barrier coating used to encapsulate our zinc and anti-corrosion chemical bonding agents minimize the opportunity for contact to occur, thereby further minimizing the risk of corrosion.