



Acid Immersion Test

ASTM G31 STANDARD GUIDE FOR LABORATORY IMMERSION CORROSION TESTING OF METALS

The acid immersion test is one of the quickest ways to see how well Doxsteel Fasteners hold up to corrosive environments. Our bolts are submerged in an acid solution for seven days and monitored to see how much mass is lost. We often perform this test for visitors to our lab, placing an immersed Doxsteel Fastener side by side with a bolt from a leading competitor. The competitor's bolt reacts immediately while the Doxsteel Fastener stands strong.

COATINGS EVALUATIONS IMMERSION TEST ASTM G31

COATING	CORROSION RATE (g)	
	BEST RESULTS	AVERAGE (200 TESTS)
Cadmium Plating	2.3820	3.0290
Hot Dip Zinc	2.0250	4.0120
Zinc Plating	1.8380	3.2500
Zinc Plating + PTFE	0.0930	0.6320
Ceramic + PTFE	0.1260	0.7450
Zn-Ni Plating	1.1210	2.1430
doxsteelfasteners	0.0037	0.0100