



Cyclical Salt Fog Test

ASTM G85 Standard Practice for Modified Salt Spray (Fog) Testing

Real world conditions are not always as constant as the ASTM B117 Standard Salt Fog Test. Sometimes there are salt fog conditions, sometimes rain and choppy waters splash salt spray, and sometimes it's so perfect outside that you'd rather go fishing than work on the platform. Through all these gulf conditions, fasteners need to stand up to corrosion. As the weather changes, it creates new scenarios to test the fasteners. Enter the ASTM G85 Modified Salt Fog Test.

ASTM G85 places the fasteners in a cyclic salt fog environment, alternating between wet and dry conditions. This deposits corrosive salts unevenly on the bolt, attacking the fastener more intensely than a standard salt fog test and giving us a more accurate understanding of the real world conditions that our fasteners face during service. Through our large sample size, we are able to determine the average lifespan of our fasteners in this cyclic environment and compare it to other leading fastener coatings.

COATING	HOURS WITH LESS THAN 15% OF RED RUST	HOURS WITH LESS THAN 15% OF RED RUST	HOURS WITH LESS THAN 15% OF RED RUST
	Best Results	Average (200 tests)	After Mechanical Work
Cadmium Plating	150	90	≤24
Hot Dip Zinc	120	80	≤24
Zinc Plating	100	70	≤24
Zinc Plating + PTFE	100	70	≤24
Ceramic + PTFE	210	150	≤24
Zn-Ni Plating	120	95	≤24
doxsteelfasteners	1,200	1,000	250