

Modern Plating Corporation

Salt Spray Testing Results (per automotive specifications)

Hexavalent Finishes

| Plating Thickness | Hours to White Corrosion | Hours to Red Rust |
|--|-----------------------------|----------------------|
| Zinc | | |
| Clear Chromate | | |
| 6um/.0002 | 12 hours | 32 hours |
| 8um/.0003 | 12 hours | 48 hours |
| 12um/.0005 | 12 hours | 60 hours |
| Dichromate & Leached | | |
| 6um/.0002 | 96 hours | 180 hours |
| 8um/.0003 | 96 hours | 200 hours |
| 12um/.0005 | 96 hours | 220 hours |
| Yellow or Black Chromate | | |
| 6um/.0002 | 96 hours | 120 hours |
| 8um/.0003 | 96 hours | 144 hours |
| 12um/.0005 | 96 hours | 168 hours |
| HC Black Chromate | | |
| 8um/.0003 | 240 hours | 400 hours |
| 12um/.0005 | 240 hours | 600 hours |
| HC Black Chromate & Topcoat | | |
| 8um/.0003 | 240 hours | 500 hours |
| 12um/.0005 | 240 hours | 700 hours |
| JS500, JS600, JS2000 or Superseal | | |
| 8um/.0003 | 96 hours | 500 hours |
| 12um/.0005 | 96 hours | 700 hours |

| | | |
|------------------------|-----------|--------------|
| Zinc Plus | | |
| Zinc Plus Clear | | |
| 8um/.0003 | 300 hours | 600 hours |
| 12um/.0005 | 300 hours | 850 hours |
| Zinc Plus Black | | |
| 8um/.0003 | 300 hours | 1,000 hours |
| 12um/.0005 | 300 hours | 1,000+ hours |
| GM6138 | 120 hours | 500 hours |

| | | |
|------------------------|-----------|-------------|
| Alloys | | |
| Zinc Cobalt | | |
| Yellow Chromate | | |
| 6um/.0002 | 140 hours | 300 hours |
| 8um/.0003 | 140 hours | 400 hours |
| Black Chromate | | |
| 8um/.0003 | 140 hours | 300 hours |
| Zinc Nickel | | |
| Yellow Chromate | | |
| 6um/.0002 | 300 hours | 720 hours |
| 8um/.0003 | 300 hours | 1,000 hours |
| Black Chromate | | |
| 6um/.0002 | 300 hours | 720 hours |
| 8um/.0003 | 300 hours | 1,000 hours |
| Zinc Iron | | |
| Black Chromate | | |
| 6um/.0002 | 140 hours | 336 hours |
| 8um/.0003 | 140 hours | 552 hours |
| 12um/.0005 | 140 hours | 560+ hours |
| Tin Zinc | | |
| Yellow Chromate | | |
| 6um/.0002 | 120 hours | 300 hours |
| 8um/.0003 | 120 hours | 500 hours |
| 12um/.0005 | 120 hours | 600 hours |

Note: All salt spray testing is done in accordance with ASTM-B-117.

HC Black, Zinc Plus and ClearMax III are registered trademarks of Modern Plating Corporation.

Salt spray testing provides a controlled corrosive environment and is used to provide relative corrosion resistance comparisons of various finishes. Salt spray testing does not, by itself, provide an accurate prediction of how the finish will actually perform in real world applications. Salt spray testing results should therefore not be used to predict actual finish performance. Testing in the application must be conducted to confirm actual performance. Variability of results can occur when similar parts are tested in different salt spray chambers even though the testing conditions are nominally similar and within the ranges specified for such tests.

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