

Modern Plating Corporation

Salt Spray Testing Results (per automotive specifications)

Trivalent & Chrome-Free Finishes

		Hours to White Corrosion	Hours to Red Corrosion
Zinc			
.0003/8um	Zinc - Clear - GMW3044-N	120	240
.0005/12um	Zinc - Clear	120	360
.0003/8um	Zinc - Clear, Clearcoat - GMW3044-X	250	500
.0005/12um	Zinc - Clear, Clearcoat	250	500+
.0003/8um	Zinc - Clear, Clearcoat, Wax - GMW3044-G	120	384
.0003/8um	Zinc - Clear, Clearcoat, Wax - Ford S437	120	384
.0005/12um	Zinc - Clear, Clearcoat, Wax	240	480
.0003/8um	Zinc - Clear, Organic Topcoat - Ford S440	240	840
.0003/8um	Zinc - Yellow	120	240
.0005/12um	Zinc - Yellow	120	360
.0003/8um	Zinc - Black with Topcoat	120	240
.0005/12um	Zinc - Black with Topcoat	120	360
.0003/8um	Zinc - Clear, JS500	240	500
.0003/8um	Zinc - Clear, JS600	240	500

Tin Zinc			
.0002/6um	Tin-Zinc - Clear -- Chrysler PS8956	120*	300
.0003/8um	Tin Zinc - Clear -- Chrysler PS8956	120*	400
.0003/8um	Tin Zinc - Clear -- GMW3200	48	1,000
.0004/10um	Tin Zinc - Clear -- Chrysler PS8956	120*	500
.0005/12um	Tin Zinc - Clear -- Chrysler PS8956	120*	600

Zinc Cobalt			
.0002/5um	Zinc Cobalt - Clear - Chrysler PS8955	72	250
.0002/5um	Zinc Cobalt - Clear with Topcoat - Chrysler PS8955	96	300
.0003/8um	Zinc Cobalt - Clear - Chrysler PS8955	72	350
.0003/8um	Zinc Cobalt - Clear - GMW4700	96	400
.0003/8um	Zinc Cobalt - Clear with Topcoat - Chrysler PS8955	96	400
.0003/8um	Zinc Cobalt - Black - Chrysler PS8955	48	350
.0003/8um	Zinc Cobalt - Black - GMW4700	72	400
.0003/8um	Zinc Cobalt - Black with Topcoat - Chrysler PS8955	72	400

Zinc Iron			
.0002/5um	Zinc Iron - Clear - Chrysler PS8955	72	250
.0002/5um	Zinc Iron - Clear with Topcoat - Chrysler PS8955	96	300
.0003/8um	Zinc Iron - Clear - Chrysler PS8955	120	350
.0003/8um	Zinc Iron - Clear with Topcoat - Chrysler PS8955	96	400
.0003/8um	Zinc Iron - Clear - GMW4700	96	480
.0003/8um	Zinc Iron - Black - Chrysler PS8955	96	350
.0003/8um	Zinc Iron - Black - GMW4700	72	480
.0003/8um	Zinc Iron - Black with Topcoat - Chrysler PS8955	72	400

Zinc Nickel			
.0002/5um	Zinc Nickel - Clear - Chrysler PS8955	96	670
.0002/5um	Zinc Nickel - Clear with Topcoat - Chrysler PS8955	120	720
.0003/8um	Zinc Nickel - Clear - Chrysler PS8955	96	790
.0003/8um	Zinc Nickel - Clear - GMW4700	120	480
.0003/8um	Zinc Nickel - Clear with Topcoat - Chrysler PS8955	120	840
.0003/8um	Zinc Nickel - Black - Chrysler PS8955	72	790
.0003/8um	Zinc Nickel - Black - GMW4700	96	480
.0003/8um	Zinc Nickel - Black with Topcoat - Chrysler PS8955	96	840

ClimaGard			
.0003/8um	Zinc - ClimaGard (Chrome-Free)		1500
.0005/12um	Zinc - ClimaGard (Chrome-Free)		1500+

Zinc Phos			
Phos & Oil		n/a	72
Phos & Oil	Dry to Touch	n/a	72
Phos	with Organic Topcoat	n/a	168

Note: Chrysler specifications require 120 hours with no voluminous white corrosion.

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

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.