



Process Performance Comparison

Gen 1* PVD
Near-Chrome

Hexavalent
Chrome Plating

Trivalent
Chrome Plating

Performance

	Gen 1* PVD Near-Chrome	Hexavalent Chrome Plating	Trivalent Chrome Plating
Salt Spray	168 hrs +	96 hrs	96 hrs
CASS Test	66 hrs	44 hrs	22 hrs
Cyclic Corrosion	30 cycles	30 cycles	30 cycles
Humidity Test	500 hrs	240 hrs	168 hrs
Water Immersion	500 hrs	240 hrs	168 hrs
Impact Resistance	40 lbs	20 lbs	20 lbs
Pencil Hardness	H	H+	H+
Gravelometer	5A	4-5A	4-5A
Adhesion	100%	> 90%	> 90%
Xyleen Rub (10 rubs)	Pass	Pass	Pass
Florida Exposure	36 mo	36 mo	36 mo
Initial Gloss	90+	90+	90+
Orange Peel	>8	>8	>8
Ethylene Glycol	Pass	Pass	Pass
Distilled Water	Pass	Pass	Pass
Engine Oil	Pass	Pass	Pass
Diesel Fuel	Pass	Pass	Pass
Acid Spot (16 Hrs.)	Pass	Fail	Fail
Alkaline Spot	Pass	Fail	Fail

Environmental

Permitting	Minor	Extensive	Extensive
Emissions/Affluents	Minimal	Heavy/Hazardous	Heavy/Hazardous
Hazards	Minimal	Extensive	Extensive

Operating

WWT	pH balance-to drain	Haz. Mat.	Haz. Mat.
Capital	Moderate	Moderate	Moderate
Application Cost	Moderate	High	High
Process Time	2 hr	2 hr + polish	2 hr + polish
Labor Efficiency	High	Low	Low

Overall Performance

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* Liquid Topcoat