J-Finish is just getting started We are taking the J-Finish from GOLD to **PLATINUM**



PLATINUM J-FINISH SPECIFICATIONS		
1.	Coating Thickness	Minimum .00050" on significant surface.
2.	Appearance	There shall be no evidence of blisters, peeling, pinholes, pits or rough surface on parts.
3.	Adhesion Requirements	There shall be no defects such as peeling, blisters or cracking after heating coated parts to $300 \pm 10^{\circ}$ C for 30 ± 5 minutes and quenching in water at 15° C to 25° C.
4.	Corrosion Resistance ASTM B 117	Part shall show no evidence of white corrosion after 96-hour exposure. Part shall show no evidence of red rust after 500-hour exposure.

Why Change?

The motivation for the change was to have a RoHS/ELV compliant finish. While this initiative has been in place since 2003, the trivalent equivalent available until today has not been satisfactory. Recent advances in the trivalent coating have made this a clear change for the better.

Team JVI is happy to answer any questions you may have. Please call, email, or request a presentation.



Your Connection Connection



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Test Report No. 6 UPDATE

The JVI Gold J-Finish has been updated to a Platinum J-Finish per the specifications below.

The Platinum J-Finish is a 3 step process as defined below.

- 1. Zinc Plate Per ASTM B633 FE/Zn12 TYPE II, SC3 Severe, (minimum thickness 0.0005")
- 2. Trivalent Clear Chromate (RoHS and ELV compliant)
- 3. Sealer

The "PLATINUM J-FINISH" shall meet the following specifications.

PLATINUM J-FINISH SPECIFICATIONS			
1.	Coating Thickness	Minimum .00050" on significant surface.	
2.	Appearance	There shall be no evidence of blisters, peeling, pinholes, pits or rough surface on parts.	
3.	Adhesion Requirements	There shall be no defects such as peeling, blisters or cracking after heating coated parts to $300 \pm 10^{\circ}$ C for 30 ± 5 minutes and quenching in water at 15° C to 25° C.	
4.	Corrosion Resistance ASTM B 117	Part shall show no evidence of white corrosion after 96-hour exposure.	
		Part shall show no evidence of red rust after 500-hour exposure.	

Salt spray testing in accordance with Test Report 6 have been conducted and the results included with this update. The Platinum J-Finish passed all testing the previous gold J-Finish has been subjected to.

The motivation for the change was to have a RoHS/ELV compliant finish, a finish that does not require a hexavalent chromium. While this initiative has been in place since 2003, the trivalent equivalent available until today has not been satisfactory. Recent advances in the trivalent coating have made this a clear change for the better.

Please consider Test Report No. 6 to serve as reference only and consider the latest certificates of compliance to replace Test Report No. 6 for all specification and submittal purposes.

Please contact team JVI with any questions.

<u>info@jvi-inc.com</u> 847-675-1560 1-800-742-8127 (toll free) <u>www.jvi-inc.com</u>



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CERTIFICATE OF COMPLIANCE

Customer:	A.B.M. Tool & Die Co. Ltd	Processing Location:	Coatings 85 Ltd.
Part Number:	Sample parts	Specification:	ASTM-B633-FE/ZN12 TYPE11+SEAL
Type of Finish:	Electroplated Zinc Clear Trivalent +Seal		
Processing Date	August 24,2015	Prepared Date:	September 25, 15

Actual Parts processed to the above specification have been tested with results as detailed below.

	TEST PERFORMED	RESULT	SPECIFICATION
1.	<u>Coating Thickness</u> ASTM-B633-FE/ZN12 TYPE11+SEAL Actual parts tested	.00057 .00060 .00059	Minimum .00050 on significant surface.
2.	<u>Appearance</u> ASTM-B633-FE/ZN12 TYPE11+SEAL Actual parts tested	No evidence of blisters, peeling, pinholes, pits or rough surface on parts.	There shall be no evidence of blisters, peeling, pinholes, pits or rough surface on parts.
3.	<u>Adhesion Requirements</u> ASTM-B633-FE/ZN12 TYPE11+SEAL Actual part tested	No evidence of peeling, blisters or cracking after heating coated parts to $300 \pm 10^{\circ}$ C for 30 ± 5 minutes and quenching in water at 15° C to 25° C.	There shall be no defects such as peeling, blisters or cracking after heating coated parts to $300 \pm 10^{\circ}$ C for 30 ± 5 minutes and quenching in water at 15° C to 25° C.
4.	<u>Corrosion Resistance – Neutral</u> ASTM-B633-FE/ZN12 TYPE11+SEAL 3 Actual parts tested	Passed	Part shall show no evidence of white corrosion after 96-hour exposure.
		Passed	Part shall show no evidence of red rust after 500-hour exposure.
Cliff	ford Allen		

Q.C. Supervisor



JAGEMANN PLATING CO.

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LABORATORY CONTROL • ELECTRO PLATING • METAL FINISHING

ISO 9001:2008 CERTIFIED

In-House Test

Process Verification: Zinc Trivalent Clear Chromate Plate .0005 Minimum Thickness, With Sealer (Rack Process)

Deter	11/1//0015		Х7	25DL /7: 1:11
Date:	11/16/2015		Your Ref # :	25DL/Zincroshield
Subject:	Salt Spray Test		Part # :	Sample
			Inspection Date:	10/26/2015 -
			_	11/16/2015
Plating Specification:		Zinc Trivalent Clear Chromate Plate .0005 Minimum Thickness		
		With Sealer		
		1010 Material		
		Pin		
Actual Plating Thickness:		.0005100062		

Salt Spray Test Results (ASTM B 117)

Hours		Test	
Of	Visual Observations	Requirements	Pass/Fail
Exposure			
120	After 120 hours of exposure to the below	We were	PASS
	described test conditions, the parts were	requested to	
	removed from the test chamber, rinsed with	salt fog test	
	de-ionized water, dried with filtered dry	the parts	
	compressed air and inspected. The surface of	according to	
	the test sample shows no visible white rust	American	
	products in the concern area. After 500 hours	Society for	
	of exposure to the below described test	Testing and	
	conditions, the parts were removed from the	Materials	
	test chamber, rinsed with de-ionized water,	(ASTM) B	
	dried with filtered dry compressed air and	117 for 500	
	inspected. The surface of the test sample	hours.	
	shows visible white rust, no visible red rust		
	products.		

Solution	5 % NaCl
Chamber Temperature	95 ± 1 ° F
Specific Gravity @ 95 ° F	1.025 to 1.040
PH Of Collected Solution	6.5 to 7.2
Average Collection Rate	1 - 2 ml/hr./80 cm ² surf. area

It is our policy to retain samples for a minimum of 10 days from the report date, after which time they may be discarded.

The data herein represents only the item(s) testes. This report shall not be reproduced except in full, without prior written permission of Jagemann Plating Company.

Electronic document Original Contains Signature Signed: ____

John R. Nelesen Quality Assurance Manager