Automotive Testing Division
ACT Laboratories, Inc.
273 Industrial Dr. • P.O. Box 735 • Hillsdale, MI 49242 • (517) 439-1485 • Fax (517) 439-1652

LABORATORY TEST REPORT

ACT PROJECT AIN 125220

Program:	Paint Performance Testing
Submitted By:	Brett Christman, J&L Specialty Steel, Incorporated
Material:	Customer Supplied Panels

Evaluation #1:	Total Film Thickness
AQT 37776:	Per Line #3 on Quotation
Material Received:	02/04/02
Test Date:	02/05/02
Test Method:	ASTM D 1186-01
Instrument:	Fischerscope MULTI 650 C (ACT #14)
Number of Readings:	Three per part; average recorded
Total Film:	All coatings are included (including nonferrous metallic coatings where applicable)
mil:	0.001 Inch

Evaluation #2:	Chip Resistance of Coatings
AQT 37776:	Per Line #3 on Quotation
Material Received:	02/04/02
Test Started:	02/06/02
Test Completed:	02/07/02
Test Method:	GM 9508P (06/01) Method B
Preconditioning:	Minimum of 4 hours at -30 ± 2°C
Test Conditions:	Temperature -30 ± 2°C, Air Pressure 70 ± 3 psi, 550 ml Gravel
Test Apparatus:	QGR Gravelometer without backing plate (ACT #98)
Gravel:	Water worn alluvial road gravel which passes through a 16 mm space screen, but is retained on a 9.5 mm space screen.
Exposure Chamber:	Tonka Walk-In Cold Chamber (ACT #369)
Tape:	3M Scotch Brand 202-2 (ACT #287)
Examination:	Visual comparison with General Motors Standards

Prepared By:

SED

SED
02/14/02 SED-4 pp. 94-95

Approved By:

Kevin Wendt

Kevin Wendt
Technical Manager

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Material: Customer Supplied Panels

Chip Resistance Test Data:

ID	Total Film	Rating	Level of Failure	Type of Failure
R700	0.8 mils	8	Substrate to Topcoat	Adhesive
R701	0.7	8	Substrate to Topcoat	Adhesive
R702	0.5	8	Substrate to Topcoat	Adhesive
R703	0.5	8	Substrate to Topcoat	Adhesive
R704	0.8	8	Substrate to Topcoat	Adhesive
R705	0.6	8	Substrate to Topcoat	Adhesive
R706	0.6	8	Substrate to Topcoat	Adhesive
R707	0.8	8	Substrate to Topcoat	Adhesive
R708	0.8	8	Substrate to Topcoat	Adhesive
R709	0.6	8	Substrate to Topcoat	Adhesive
R710	0.7	8	Substrate to Topcoat	Adhesive
R711	0.8	8	Substrate to Topcoat	Adhesive
R712	0.7	8	Substrate to Topcoat	Adhesive
R713	0.7	8	Substrate to Topcoat	Adhesive
R714	0.8	8	Substrate to Topcoat	Adhesive

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Chip Resistance Test Data (Cont.):

ID	Total Film	Rating	Level of Failure	Type of Failure
R720	0.8 mils	8	Substrate to Topcoat	Adhesive
R721	0.8	8	Substrate to Topcoat	Adhesive
R722	0.6	8	Substrate to Topcoat	Adhesive
R723	0.7	8	Substrate to Topcoat	Adhesive
R724	0.8	8	Substrate to Topcoat	Adhesive
R725	0.5	8	Substrate to Topcoat	Adhesive
R726	0.6	8	Substrate to Topcoat	Adhesive
R727	0.7	8	Substrate to Topcoat	Adhesive
R728	0.9	8	Substrate to Topcoat	Adhesive
R729	0.6	8	Substrate to Topcoat	Adhesive
R730	0.8	8	Substrate to Topcoat	Adhesive
R731	0.8	8	Substrate to Topcoat	Adhesive
R732	0.7	8	Substrate to Topcoat	Adhesive
R733	0.8	8	Substrate to Topcoat	Adhesive
R734	0.7	8	Substrate to Topcoat	Adhesive