

OFFICE MEMORANDUM

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MICHIGAN
STATE HIGHWAY DEPARTMENT

March 4, 1965

To: W. W. McLaughlin
Testing & Research Engineer

From: E. A. Finney

Subject: Proprietary Surface Conversion Treatments for Aluminum. Research Project 64 G-137. Research Report No. R-501.

Subject project was initiated by R. L. Greenman's letter of November 20, 1964 approving H. J. Rathfoot's letter to you, dated November 9, 1964, requesting evaluation of effectiveness, to salt-spray cabinet exposure, of two proprietary surface conversion treatments on aluminum panels, producer prepared:

Test was per requirement of specification MIL-C-5541 stipulating exposure in a salt-spray cabinet for 168 hours at 95 F using 5 percent salt solution. Two other samples, covering Department treatment and panels, were evaluated for reference, as indicated on attached sheet.

Test panels are being transmitted for return to the Office of Maintenance.

Inspection of results and panels shows that the two proprietary and the current Department treatment (reference) resist corrosion formation under test conditions, while the untreated Department aluminum-stock panel (second, reference) shows minor corrosive etching.

OFFICE OF TESTING AND RESEARCH

E. A. Finney, Director
Research Laboratory Division

EAF:AJP:nl

Attachment

cc: H. J. Rathfoot (samples)
F. J. Bashore

TEST RESULTS

Exposure to 5 percent Salt-Spray at 95 F for 168 Hours
 Research Project 64 G-137, Treatments on Aluminum

Laboratory Identification	Producer	Producer Treatment	Test Rating
64 PR-124 a	Dubois Chem.	Shield-1 min	No corrosion
b		Shield-2 min	No corrosion
c		Shield-3 min	No corrosion
d		Shield-4 min	No corrosion
e		Shield-5 min	No corrosion
64 PR-125 3 panels	Haviland Co.	Clean and treat in Chromater	No corrosion
64 PR-127 a	MSHD panel	MSHD treatment	No corrosion
b	MSHD panel	MSHD treatment	Reference panel (unexposed)
64 PR-126 a	MSHD panel	No treatment	Slight corrosion and dulling
b	MSHD panel	No treatment	Reference panel (unexposed)

Tested for information.

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