



AEROSPACE TESTING
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A Division of Taylor Technology Company LLC

To: Chris Gallahar, Chemist
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10963 Leroy Drive
Northglenn, CO 80233

From: Aerospace Testing Services
a Division of Taylor Technology Company LLC
3450 N. Rock Rd., #302
Wichita, KS 67226

Subject: Project ATS00400: Boeing D6-17487T Testing Results of Jade Quartz

Dear Puris Team,

Congratulations, the material met the requirements specified in Boeing D6V17487T for which it was evaluated. The material supplied, Jade Quartz Ceramic Coating, performed well in all tests and results are given in Appendix A.

Attached hereto are the results for the aforementioned project for which ATS tested Jade Quartz Ceramic Coating for requirements of specification furnished by Puris to ATS. The results pertain to the articles provided to ATS for testing and do not constitute batch-to-batch results.

Please advise if you have any questions or need additional information that is not provided in this report. You can reach me at 316.461.1274 cell, 316.440.9998 office, or email at the following address info@aero-testing-services.com.

Warmest Regards,

J. Marc Taylor, Manager
Aerospace Testing Services



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Appendix A: Test Results
Jade Quartz – Customer Supplied Sample



Sandwich Corrosion Test per ASTM F1110 –

Criteria - no more than 5% of the surface area shall be corroded.

Sandwich Material A – Clad 7075-T6 Aluminum (AMS 4049)

Control

Specimen #1 – F1110 Rating 4 – discoloration and >25% Corrosion

Specimen #2 – F1110 Rating 4 - discoloration and >25% Corrosion

Test Material

Specimen #1 – F1110 Rating 1 – discoloration, no corrosion

Specimen #2 – F1110 Rating 1 – discoloration, no corrosion

Sandwich Material B – Bare 7075-T6 Aluminum (AMS 4045) Anodized BAC 5019 TY 3 Seal

Control

Specimen #1 – F1110 Rating 1 – discoloration, no corrosion

Specimen #2 – F1110 Rating 1 – discoloration, no corrosion

Test Material

Specimen #1 – F1110 Rating 1 – discoloration, no corrosion

Specimen #2 – F1110 Rating 1 – discoloration, no corrosion

Acrylic Craziing Test per ATSM F484

Criteria – shall nor craze or crack acrylic test specimens when under load for 8 hours.

Stretched Acrylic Plastic IAW Mil-P-25690 Stressed to 4 500 psi

Specimen #1 – No Craziing, cracking, of loaded acrylic plastic during 8 hr. duration.

Specimen #2 – No Craziing, cracking, of loaded acrylic plastic during 8 hr. duration

Paint Softening Test per ASTM F502 (pencils)

Criteria – exposed specimen shall not have a pencil rating less than unexposed specimen.

BMS 10-79 Specimens

Pencil Hardness prior to Application – HB/F

Pencil Hardness post Exposure – HB/F – no change

BMS 10-60 Specimens

Pencil Hardness prior to Application – HB/F

Pencil Hardness post Exposure – HB/F – no change

Hydrogen Embrittlement Test per ASTM F519 Type 1C (ref. 72316)

Criteria – no rupture of specimen under load of 45% NFS load for 150 hours.

Specimen #1 – no failure

Specimen #2 – no failure

Specimen #3 – no failure

Specimen #4 – no failure