

PRODUCT TESTING

HEAT RELEASE TEST

COMPLETED BY:
Aeroblaze Laboratory

TESTING CATEGORY:
Aerospace Flammability

PRODUCTS TESTED:
H and F Series

DATE:
06/08/2026

We submitted samples of our H and F Series of Cerakote coatings to Aeroblaze Laboratory, Inc., a third-party testing facility that specializes in aerospace flammability testing.

The testing parameters and results are as follows.

TEST CONDUCTED

14 CFR 25.853(d) at Amendment 25-116; Appendix F, Part IV

TESTING PARAMETERS

- Maximum Heat Release (HRR)
- Total Heat Release (HR) Within First 2 Minutes (kW min/m²)

CERAKOTE COATINGS TESTED

- H-900 Electrical Barrier
- H-157 Bright Nickel
- F-102 Carbon Black

RESULTS

All coatings tested **PASSED** the Federal Standard.

This information is accurate to the best of our knowledge; however, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Heat Release Test Results

14 CFR 25.853(d) at Amdt. 25-116; Appendix F, Part IV

Customer Information

NIC Industries
7050 6th Street
White City, Oregon 97503

Sample Information

(H-900) - 6061 Aluminum

Sample	Maximum Heat Release (HRR)		Total Heat Release (HR) Within First 2 Minutes (kW min/m ²)
	Heat Release (kW/m ²)	Time of Occurrence (sec)	
1	46.9	48	15.8
2	40.1	45	12.0
3	51.3	50	19.5
Average:	46.1	48	15.8
Result:	PASS		PASS
NM/2 = No measurable Total HR within first 2 minutes. NC = Not calculated. DNO = Did not occur.			

Acceptance Criteria:

Heat Release Rate (HRR) Average: 65 kW/m² max.
Total Heat Release (HR) Average: 65 kW min/m² max.

Conditioning (24 hours min.): 70 ± 5 °F, 50 ± 5 %RH
Calibration Factor (Kw/mV): 0.2812
Radiant Heat Flux (W/cm²): 3.50

Results

☒ **PASS**

Notes: Tested at external laboratory.

☐ **FAIL**

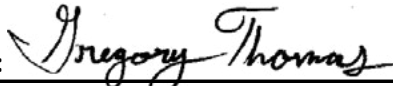
RESULTS RELATE ONLY TO THE ITEMS AS RECEIVED AND TESTED. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL.

DECISION RULE: PASS/FAIL CRITERIA IS DETERMINED BY DIRECT COMPARISON OF THE REPORTED RESULT TO THE TEST METHOD'S SPECIFIED LIMIT(S).

NOTE TO INSPECTORS: THIS BURN CERTIFICATE MAY NOT BE SUFFICIENT TO MEET REGULATORY REQUIREMENTS, EVEN IF SIGNED BY A D.E.R.
MATERIALS MUST BE TESTED IN COMPOSITE BUILDUPS BY THE INSTALLER AND MAY REQUIRE FAA APPROVAL. CONTACT US WITH QUESTIONS.

Tested by: Armando Sanchez

08-Jun-26

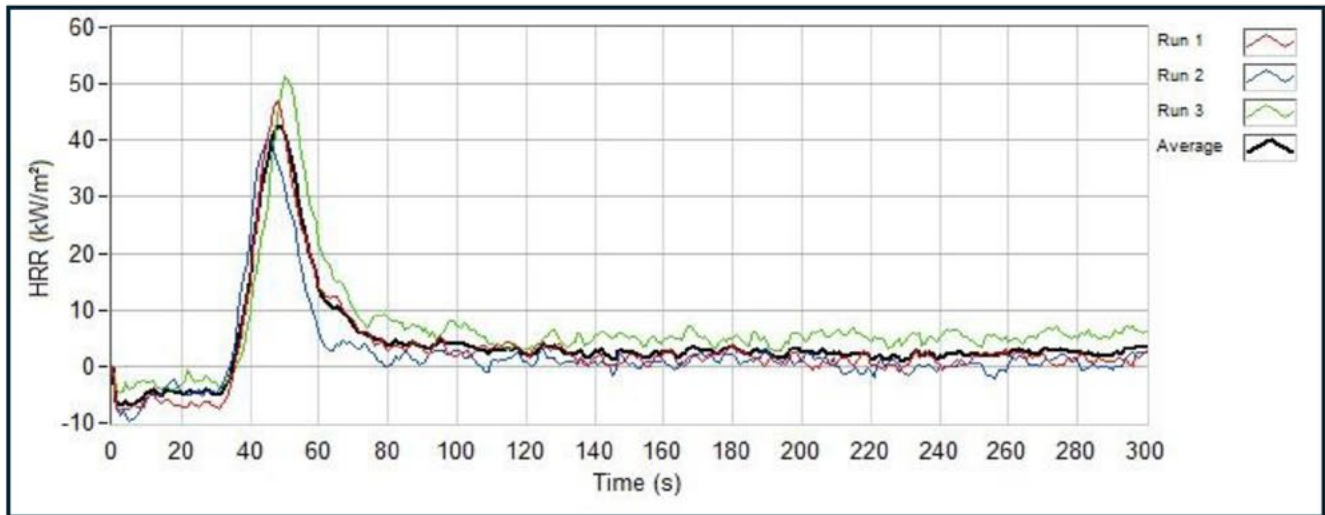
Approval: 
Gregory Thomas, Lab Manager

08-Jun-26

Heat Release Test Results

14 CFR 25.853(d) at Amdt. 25-116; Appendix F, Part IV

HEAT RELEASE CHART



Heat Release Test Results

14 CFR 25.853(d) at Amdt. 25-116; Appendix F, Part IV

Customer Information

NIC Industries
7050 6th Street
White City, Oregon 97503

Sample Information

(F-102) - 6061 Aluminum

Sample	Maximum Heat Release (HRR)		Total Heat Release (HR) Within First 2 Minutes (kW min/m ²)
	Heat Release (kW/m ²)	Time of Occurrence (sec)	
1	0.0	0	0.0
2	4.7	44	0.7
3	5.4	161	1.3
Average:	3.4	68	0.7
Result:	PASS		PASS
NM/2 = No measurable Total HR within first 2 minutes. NC = Not calculated. DNO = Did not occur.			

Acceptance Criteria:

Heat Release Rate (HRR) Average: 65 kW/m² max.
Total Heat Release (HR) Average: 65 kW min/m² max.

Conditioning (24 hours min.): 70 ± 5 °F, 50 ± 5 %RH
Calibration Factor (Kw/mV): 0.2812
Radiant Heat Flux (W/cm²): 3.50

Results

☒ **PASS**

☐ **FAIL**

Notes:

Tested at external laboratory.
All heat release results are essentially zero, seeming to fluctuate below/above zero within the tolerance of the machine. Little to no combustion occurred of the coating, and the samples absorbed heat that was never released since combustion was not occurring.

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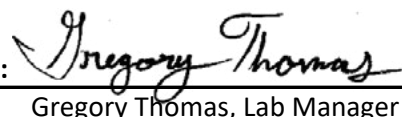
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08-Jun-26

Approval:

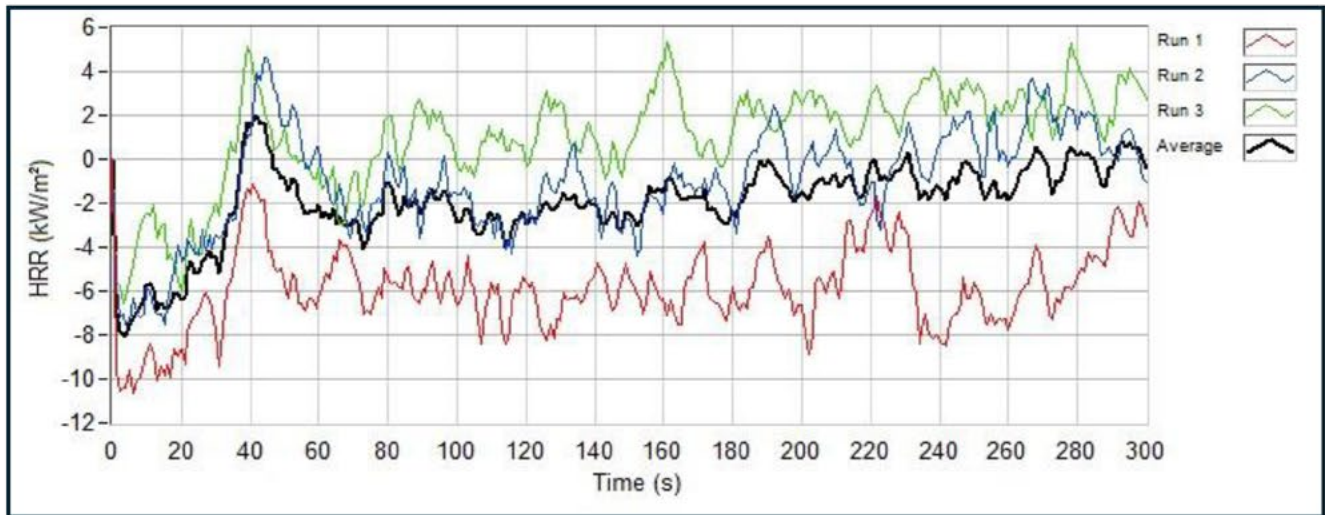

Gregory Thomas, Lab Manager

08-Jun-26

Heat Release Test Results

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Heat Release Test Results

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Customer Information

NIC Industries
7050 6th Street
White City, Oregon 97503

Sample Information

(H-157) - 6061 Aluminum

Sample	Maximum Heat Release (HRR)		Total Heat Release (HR) Within First 2 Minutes (kW min/m ²)
	Heat Release (kW/m ²)	Time of Occurrence (sec)	
1	7.3	293	3.1
2	5.1	54	0.7
3	8.6	52	2.3
Average:	7.0	133	2.0
Result:	PASS		PASS
NM/2 = No measurable Total HR within first 2 minutes. NC = Not calculated. DNO = Did not occur.			

Acceptance Criteria:

Heat Release Rate (HRR) Average: 65 kW/m² max.
Total Heat Release (HR) Average: 65 kW min/m² max.

Conditioning (24 hours min.): 70 ± 5 °F, 50 ± 5 %RH
Calibration Factor (Kw/mV): 0.2812
Radiant Heat Flux (W/cm²): 3.50

Results

☒ PASS

Notes: Tested at external laboratory.

☐ FAIL

RESULTS RELATE ONLY TO THE ITEMS AS RECEIVED AND TESTED. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL.

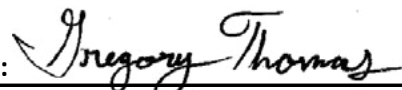
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