

Cerakote – Toxicity (Flaming Mode) Test

We submitted samples of each of our series (H Series, C Series, Elite Series, V and MC 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:

Toxicity (Flaming Mode) Test Results (which meets Boeing BSS 7239, Revision A)

o **Testing Parameters**:

Exposure to heat and/or flame: 4 minutes

Substrate: 6061 Aluminum

o **Cerakote Coatings Tested:**

- H-146 Graphite Black
- C-102 Graphite Black
- E-100 Blackout
- V-166 Cobra Black
- MC-156 High Gloss Clear

o **Results**:

All coatings tested PASSED the Boeing Standard.



Aeroblaze Laboratory Inc. 12819 Harmon Rd. Bldg 575 Fort Worth, TX 76177 USA

Report # 2742.6

Toxicity (Flaming Mode) Test Results

Boeing BSS 7239, Revision A

Customer Information

NIC Industries Inc 7050 6th Street White City, OR 97503

Sample Notes

H-146 H-series; 6061 Alum Sheet .032 with Coating (1 mil)

Gas	Gas Limit (ppm)		Sample 1			Sample 2			Sample 3		
Gas	at 4 min	Value	Method	Result	Value	Method	Result	Value	Method	Result	
HCN	150	< 1	DT	PASS	< 1	DT	PASS	-	-	-	
со	3500	39	GF	PASS	45	GF	PASS	-	ı	-	
NO/NO ²	100	2	GF	PASS	3	GF	PASS	-	-	-	
SO ²	100	< 1	GF	PASS	< 1	GF	PASS	-	-	-	
HF	200	* <1	DT	PASS	< 1	DT	PASS	-	-	-	
HCL	500	5	DT	PASS	5	DT	PASS	-	-	-	

DT = Dräeger Tubes | **PO** = Potentiometry | **GF** = Gas Flue Analysis (Testo 350)

IND. = Indeterminate. Test values exceed maximum limits of Dräeger Tube

*Positive = Indicative test; HF is detected

		Results
XPASS	Notes:	Tested at partner laboratory.
FAIL		

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

18-Mar-21

Tested by: Scott Van Wormer

Approval: Andrew Feghali, Lab Manager, FAA DER



Aeroblaze Laboratory Inc. 12819 Harmon Rd. Bldg 575 Fort Worth, TX 76177 USA

Report # 2742.7

Toxicity (Flaming Mode) Test Results

Boeing BSS 7239, Revision A

Customer Information

NIC Industries Inc 7050 6th Street White City, OR 97503

Sample Notes

E-100 E-series; 6061 Alum Sheet .032 with Coating (1 mil)

Cas	Gas Limit (ppm)		Sample 1			Sample 2			Sample 3		
Gas	at 4 min	Value	Method	Result	Value	Method	Result	Value	Method	Result	
HCN	150	< 1	DT	PASS	< 1	DT	PASS	-	-	-	
со	3500	18	GF	PASS	15	GF	PASS	-	-	-	
NO/NO ²	100	1	GF	PASS	2	GF	PASS	-	-	-	
SO ²	100	0	GF	PASS	0	GF	PASS	-	-	ı	
HF	200	* <1	DT	PASS	< 1	DT	PASS	-	-	-	
HCL	500	10	DT	PASS	10	DT	PASS	-	-	-	

DT = Dräeger Tubes

PO = Potentiometry | **GF** = Gas Flue Analysis (Testo 350)

IND. = Indeterminate. Test values exceed maximum limits of Dräeger Tube

*Positive = Indicative test; HF is detected

	Results								
XPASS	Notes:	Tested at partner laboratory.							
FAIL									

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

Tested by: Scott Van Wormer

18-Mar-21

Approval:



Aeroblaze Laboratory Inc. 12819 Harmon Rd. Bldg 575 Fort Worth, TX 76177 USA

Report # 2742.8

Toxicity (Flaming Mode) Test Results

Boeing BSS 7239, Revision A

Customer Information

NIC Industries Inc 7050 6th Street White City, OR 97503

Sample Notes

C-102 C-series; 6061 Alum Sheet .032 with Coating (1 mil)

Cos	Gas Limit (ppm)		Sample 1			Sample 2			Sample 3		
Gas	at 4 min	Value	Method	Result	Value	Method	Result	Value	Method	Result	
HCN	150	< 1	DT	PASS	< 1	DT	PASS	-	-	-	
со	3500	15	GF	PASS	21	GF	PASS	-	-	-	
NO/NO ²	100	1	GF	PASS	2	GF	PASS	-	-	-	
SO ²	100	0	GF	PASS	0	GF	PASS	-	-	-	
HF	200	* <1	DT	PASS	< 1	DT	PASS	-	-	-	
HCL	500	15	DT	PASS	15	DT	PASS	-	-	-	

DT = Dräeger Tubes

PO = Potentiometry | **GF** = Gas Flue Analysis (Testo 350)

IND. = Indeterminate. Test values exceed maximum limits of Dräeger Tube

*Positive = Indicative test; HF is detected

		Results
XPASS	Notes:	Tested at partner laboratory.
FAIL		

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

Approval:

Tested by: Scott Van Wormer

18-Mar-21



Aeroblaze Laboratory Inc. 12819 Harmon Rd. Bldg 575 Fort Worth, TX 76177 USA

Report # 2742.9

Toxicity (Flaming Mode) Test Results

Boeing BSS 7239, Revision A

Customer Information

NIC Industries Inc 7050 6th Street White City, OR 97503

Sample Notes

MC-156 MC-series; 6061 Alum Sheet .032 with Coating (1 mil)

Cas	Gas Limit (ppm)		Sample 1			Sample 2			Sample 3		
Gas	at 4 min	Value	Method	Result	Value	Method	Result	Value	Method	Result	
HCN	150	< 1	DT	PASS	< 1	DT	PASS	-	-	-	
со	3500	14	GF	PASS	19	GF	PASS	-	-	1	
NO/NO ²	100	1	GF	PASS	1	GF	PASS	-	-	-	
SO ²	100	0	GF	PASS	0	GF	PASS	-	-	1	
HF	200	* <1	DT	PASS	< 1	DT	PASS	-	-	-	
HCL	500	15	DT	PASS	15	DT	PASS	-	-	-	

DT = Dräeger Tubes

PO = Potentiometry | **GF** = Gas Flue Analysis (Testo 350)

IND. = Indeterminate. Test values exceed maximum limits of Dräeger Tube

*Positive = Indicative test; HF is detected

		Results
XPASS	Notes:	Tested at partner laboratory.
FAIL		

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

Approval:

Tested by: Scott Van Wormer

18-Mar-21



Aeroblaze Laboratory Inc. 12819 Harmon Rd. Bldg 575 Fort Worth, TX 76177 USA

Report # 2742.10

Toxicity (Flaming Mode) Test Results

Boeing BSS 7239, Revision A

Customer Information

NIC Industries Inc 7050 6th Street White City, OR 97503

Sample Notes

V-166 V-series; 6061 Alum Sheet .032 with Coating (1 mil)

Cas	Gas Limit (ppm)		Sample 1			Sample 2			Sample 3		
Gas	at 4 min	Value	Method	Result	Value	Method	Result	Value	Method	Result	
HCN	150	< 1	DT	PASS	< 1	DT	PASS	-	-	-	
со	3500	18	GF	PASS	23	GF	PASS	-	-	-	
NO/NO ²	100	2	GF	PASS	2	GF	PASS	-	-	ı	
SO ²	100	0	GF	PASS	0	GF	PASS	-	-	ı	
HF	200	* <1	DT	PASS	< 1	DT	PASS	-	-	-	
HCL	500	15	DT	PASS	18	DT	PASS	-	-	-	

DT = Dräeger Tubes | **PO** = Potentiometry | **GF** = Gas Flue Analysis (Testo 350)

IND. = Indeterminate. Test values exceed maximum limits of Dräeger Tube

*Positive = Indicative test; HF is detected

		Results
XPASS	Notes:	Tested at partner laboratory.
FAIL		

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

Tested by: Scott Van Wormer Approval: 18-Mar-21