

Attn: Stefan Mann  
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Germany

Date: 05-Oct-2022  
SMI/REF: 2207-613

Product: **AEROCLEAN IC 230** (received 15-Aug-2022)  
Dilution: As received

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**BOEING SPECIFICATION SUPPORT STANDARD  
BSS7434  
CHEMICAL COMPATIBILITY OF CLEANING PRODUCTS AND INTERIOR  
PARTS/MATERIALS OF COMMERCIAL TRANSPORT AIRCRAFT**

(Version: Original issue, 04-Jun-2019)  
Supersedes Boeing D6-7127

(Note: Boeing D6-7127 was cancelled and superseded by BSS7434 on 04-Jun-2019)

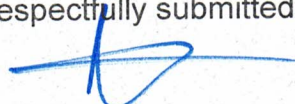
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Respectfully submitted,



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**PROCEDURE**

**7.a Cleaning materials must be tested in accordance with BAC5150 test requirements.**

**5.1 / 7.1 Sandwich Corrosion Test**

Requirement (BAC5150 / 11.3.1): Corrosion in excess of that on the control panel constitutes failure when tested in accordance with the procedures section for sandwich corrosion in BSS7434.

	CLAD 7075-T6 ALUMINUM (AMS 4049)	BARE 7075-T6 (AMS-QQ-A-250/12) ANODIZED PER MIL-A-8625 TYPE I (with dichromate seal)
<b>PRODUCT (AS RECEIVED)</b>	1	1
CONTROL (D.I WATER)	1	1

Result                      Conforms                     

**5.2 / 7.2 Immersion Corrosion Test**

Requirement (BAC5150 / 11.3.2): The average weight change of each test specimen shall not exceed  $\pm 10$  mg in a 24 hour immersion period when tested in accordance with the procedures section for immersion corrosion in BSS7434.

	<b>PRODUCT (AS RECEIVED)</b> (Loss per 1" x 2" panel )
Clad 2024-T3 aluminum (AMS-QQ-A-250/5)	< 1.0 mg
Bare 2024-T3 aluminum (AMS-QQ-A-250/4) alodined per MIL-C-5541	< 1.0 mg
Bare 2024-T3 aluminum (AMS-QQ-A-250/4) anodized per MIL-A-8625 Type I	< 1.0 mg
Bare 7178-T6 aluminum (AMS-QQ-A-250/14) anodized per MIL-A-8625 Type I	< 1.0 mg

Result                      Conforms                     

**5.3 / 7.3 Rubber Test**

Requirement (BAC5150 / 11.3.3): Changes in properties must not exceed the following, when tested in accordance with the procedures section for rubber test in BSS7434.

PROPERTY RUBBER: BMS1-72* <small>*Note: BMS1-63 replaced with BMS1-72 according to Triangle Rubber Co.</small>	MAX. CHANGE ALLOWED	PRODUCT (AS RECEIVED)
Tensile Strength	25 % loss	< 5%
Elongation	25 % loss	< 5%
Volume	$\pm 15\%$ change	< 5%

24 hour immersion at room temperature

Result                      Conforms

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#### 5.4 / 7.4 Sealant Test

Requirement (BAC5150 / 11.3.4): The sealant must not lift at the edges or lose adhesion when tested in accordance with the procedures section for sealant test in BSS7434.

**Sealant: BMS 5-95**

*Water control: No lifting or loss of adhesion when pried away from edge*

**PRODUCT (AS RECEIVED):**

**No lifting or loss of adhesion when pried away from edge**

Result Conforms

#### 5.5 / 7.5 Painted Surface Test

Requirement (BAC5150 / 11.3.5): When tested in accordance with the procedures section for painted surface test in BSS7434 and Section 7.c, the following is required:

*Exposure: 2 minutes, then rinsed*

- Paint film hardness shall not decrease more than 2 pencil hardnesses.
- Greater than minimal color change or staining constitutes test failure.

*Paint System: BMS10-83 enamel prepared in accordance with BAC5755*

**PRODUCT (AS RECEIVED):**

**Hardness change: < 2 pencil hardness change**

**Color change (AATCC Gray Scale): Grade 5 / minimal to none**

*(No perceived difference in color or contrast between original material and tested specimen).*

Result Conforms

#### 5.6 / 7.6 Tedlar Surface Test

Requirement (BAC5150 / 11.3.6): When tested in accordance with the procedures section for tedlar surface test in BSS7434 and Section 7c., the following is required:

*Exposure: 2 minutes, then rinsed*

- Greater than minimal color change or staining constitutes test failure.
- Examine for scratches

**PRODUCT (AS RECEIVED):**

**Color change (AATCC Gray Scale): Grade 5 / minimal to none**

*(No perceived difference in color or contrast between original material and tested specimen).*

**No scratches**

Result Conforms

#### 5.7 / 7.7 Vinyl Surface Test

Requirement (BAC5150 / 11.3.7): When tested in accordance with the procedures section for vinyl surface test in BSS7434 and Section 7c., the following is required:

*Exposure: 2 minutes, then rinsed*

- Cracking or brittleness of exposed specimen constitutes test failure.
- Greater than minimal color change or staining constitutes test failure.

**PRODUCT (AS RECEIVED): No cracking or brittleness**

**Color change (AATCC Gray Scale): Grade 5 / minimal to none**

*(No perceived difference in color or contrast between original material and tested specimen).*

Result Conforms

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5.8 / 7.8 Fabric and Carpet Test

Requirement (BAC5150 / 11.3.8): When tested in accordance with the procedures section for fabric and carpet test in BSS7434 and Section 7c., the following is required:

**Upholstery:**

- a. Greater than minimal color change or staining constitutes test failure.

**PRODUCT (AS RECEIVED):**

**Color change (AATCC Gray Scale): Grade 5 / minimal to none**

*(No perceived difference in color or contrast between original material and tested specimen).*

Result Conforms

- b. Flammability: maximum values:

PROPERTY	MAXIMUM VALUE	FABRIC (cut perpendicular "fill")	FABRIC (cut parallel "warp")
Extinguishing Time	15 seconds	<b>Less than 3 seconds</b>	<b>Less than 3 seconds</b>
Burn Length	8 inches	<b>4 inches</b>	<b>4 inches</b>
Drip Extinguish Time	5 seconds	<b>Less than 3 seconds</b>	<b>Less than 3 seconds</b>

Result Conforms

**Carpet:**

- a. Greater than minimal color change or staining constitutes test failure.

**PRODUCT (AS RECEIVED):**

**Color change (AATCC Gray Scale): Grade 5 / minimal to none**

*(No perceived difference in color or contrast between original material and tested specimen).*

Result Conforms

- b. Flammability: maximum values:

PROPERTY	MAXIMUM VALUE	CARPET (cut perpendicular "fill")	CARPET (cut parallel "warp")
Extinguishing Time	15 seconds	<b>Less than 3 seconds</b>	<b>Less than 3 seconds</b>
Burn Length	8 inches	<b>6 inches</b>	<b>6 inches</b>
Drip Extinguish Time	5 seconds	<b>Less than 3 seconds</b>	<b>Less than 3 seconds</b>

Result Conforms

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### 5.9 / 7.9 Leather and Naugahyde Test

Requirement (BAC5150 / 11.3.9): When tested in accordance with the procedures section for leather and naugahyde in BSS7434 and Section 7c., the following is required:

*Leather:*

- a. *Cracking or brittleness of exposed specimen constitutes test failure.*
- b. *Greater than minimal color change or staining constitutes test failure.*

**PRODUCT (AS RECEIVED): No cracking or brittleness**  
**Color change (AATCC Gray Scale): Grade 5 / minimal to none**  
*(No perceived difference in color or contrast between original material and tested specimen).*

Result           Conforms          

*Naugahyde:*

- a. *Cracking or brittleness of exposed specimen constitutes test failure.*
- b. *Greater than minimal color change or staining constitutes test failure.*

**PRODUCT (AS RECEIVED): No cracking or brittleness**  
**Color change (AATCC Gray Scale): Grade 5 / minimal to none**  
*(No perceived difference in color or contrast between original material and tested specimen).*

Result           Conforms          

### 5.10 / 7.10 Flash Point Test

Requirement (BAC5150 / 11.3.10): All cleaning candidates having a flash point must be approved by Fire Protection Engineering before they can be evaluated for use. Method used ASTM D93.

**PRODUCT (AS RECEIVED):**  
**No Flash point observed to IBP: 212 °F**  
*(IBP = Initial Boiling Point)*

Result           Informational          

### 5.11 / 7.11 Polycarbonate Crazing Test

Requirement (BAC5150 / 11.3.11): Any cracking or crazing of the polycarbonate sheet constitutes failure, when tested in accordance with the procedures section for polycarbonate crazing test in BSS7434.

*(Strain = 0.008; 10 minute exposure)*

**PRODUCT (AS RECEIVED):**

**LEXAN 9600: No cracking or crazing**  
**BMS8-400 BAC 70913: No cracking or crazing**

Result           Conforms