SMI, Inc.

3.2.1

32212

3.2.3

12219 SW 131 Avenue Miami, Florida 33186-6401 USA Phone:

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Attn: Lars Schmidt

Date:

31-Mar-2021

VeboSchmidt GmbH

Friedrich Wilhelm Str. 82a

D-32423 Minden

Germany

SMI/REF:

Conforms

Not performed

2101-424

Product: AEROCLEAN IC 240 (received 27-Jan-2021)

Dilution:	As received	Page 1 of 4
,		AMS 1452C

DISINFECTANT, AIRCRAFT; GENERAL PURPOSE Concentrated Disinfectant (fluid was tested "as received")

3.2.1.1	Flash Point	Conforms
3/11	FIRST POINT	COMOTHS

3.2.1.2	Accolorated C	tomas Ctobility
3.2.1.2	Accelerated 51	torage Stability

3.2.1.2.1	Elevated Temperature	Conforms
V ()	Elovated Telliperature	

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3.2.1.2.2	Cold Temperature		 Does not conform

2 9 2	Company and a District of the standard Addison District and Company and Addison Standard Company and C	
3.2.2	Concentrated Disinfectant and At-Use Dilution (fluid was tested "as received")	,

3.2.	2 1	Corrosion	of Metal	Surfaces
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3.2.2.1.1	Total Immersion Corrosion	Conforms

3.2.2.2	Effect on Aircraft Materials	

Long Term Storage Stability

Sandwich Corrosion

		•		
3.2.2.2.1	Effect on Transparent Plastics		Confo	rms

3.2.2.2.2	Effect on Painted Surfaces	C	
3.2.2.2.2	Ellect of Fainted Surfaces	Conforms	

3.2.2.2.3	Effect on Rubber			Conforms
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Conforms

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3.2.2.2.5	Effect on Tedlar Surfaces	Confo	ms

3.2.2.2.5	Effect on Tediar Surface	<u>Contorms</u>
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Respectfully submitted,

Patricia D. Viani, SMI Inc.

Client:

VeboSchmidt GmbH **AEROCLEAN IC 240**

Product: Dilution:

AMS 1452C

As received

Date:

31-Mar-2021

SMI/REF:

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3.2.1	Concentrated	Disinfectant:	(fluid was	tested "a	s received")	
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3.2.1.1 Flash Point: Shall be not lower than 100°C (212°F), determined in accordance with ASTM D56.

As received: No Flash Point observed to 100°C (212°F)

Result	Conforms	
RESUL	COMBINIO	

- 3.2.1.2 Accelerated Storage Stability: Disinfectant shall remain homogeneous and shall show no evidence of layering, separation, settling, or crystallization, determined in accordance with 3.2.1.2.1 and 3.2.1.2.2.
- 3.2.1.2.1 Elevated Temperature: One 6-ounce (175-ml) sample of the product shall be placed in an 8-ounce (250-ml) clear glass bottle and sealed and, from that time until the test is completed, shall be handled so as to minimize movement of the sample. The jar shall be exposed for 120 hours ± 1 at $122^{\circ}F \pm 5$ ($50^{\circ}C \pm 3$). At the end of the 120 hour period, remove sample to a room temperature environment, and allow to cool completely and examine for conformance to 3.2.1.2

As received: Homogeneous; no evidence of layering / separation

D 14	O	
Result	Conforms	

3.2.1.2.2 Cold Temperature: One 6-ounce (175-ml) sample of the product shall be placed in an 8-ounce (250-ml) clear glass bottle and sealed and, from that time until the test is completed, shall be handled so as to minimize movement of the sample. The jar shall be exposed for 120 hours ± 1 at 14°F ± 5 (-10°C ± 3). At the end of the 120 hour period, remove sample to a room temperature environment, and allow to cool completely and examine for conformance to 3.2.1.2.

As received: Non-homogeneous; evidence of layering / separation.

Result	Does n	ot con	form

- 3.2.2 Concentrated Disinfectant and At Use Dilution: (fluid was tested "as received")
- 3.2.2.1 Corrosion of Metal Surfaces:
- 3.2.2.1.1 Total Immersion Corrosion: Disinfectant shall neither cause staining, pitting, or corrosion nor cause an average weight change of AMS 4049 alclad aluminum alloy panels greater than 0.3 mg/cm² per 24 hours, determined in accordance with ASTM F 483.

AS RECEIVED: 0.01 mg/cm²/24hrs

Result	Conforms	

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AEROCLEAN IC 240

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3.2.2.1.2 Sandwich Corrosion: Specimens of AMS 4049 alclad aluminum alloy, after test, shall show a rating not worse than 1 or not worse than control panels using ASTM D 1193, Type VI water, determined in accordance with ASTM F1110.

	RATING: AMS 4049 ALCLAD ALUMINUM
AS RECEIVED	. 1
CONTROL	1

— 1.		
Result	Conforms	
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- 3.2.2.2 Effect on Aircraft Materials:
- 3.2.2.2.1 Effect on Transparent Plastics: Disinfectant shall not craze, stain, or discolor Type C acrylic plastic, determined in accordance with ASTM F484. Disinfectant shall not craze, stain, or discolor AMS-P-83310 polycarbonate plastic, determined in accordance with test procedures specified in ASTM F484 on specimens stressed for 10 min. ± 1 to an outer fiber stress of 2000 psi (20MPa).

	AS RECEIVED
Type C Acrylic (MIL-P-25690) [4500 psi / 8 hours]	No craze, stain nor discoloration
Polycarbonate (AMS-P-83310) [2000 psi / 10 minutes]	No craze, stain nor discoloration

Result	Conforms

3.2.2.2.2 Effect on Painted Surfaces: Disinfectant shall neither decrease the hardness of the paint film by more than two pencil hardness levels nor shall it produce any streaking, discoloration, or blistering of the paint film, determined in accordance with ASTM F502.

AS RECEIVED:

No decrease in film hardness. No evidence of streaking, discoloration or blistering.

Result	Conforms	· .
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Client:

VeboSchmidt GmbH **AEROCLEAN IC 240** Date: SMI/REF:

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AMS 1452C

As received

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3.2.2.2.3 Effect on Rubber: Disinfectant shall neither cause more than 25% loss of tensile strength and 25% loss in elongation nor cause more than ± 15% change of volume, when tested on material specified by the purchaser, in accordance with ASTM D 471. The test conditioning shall be performed at room temperature and the immersion period shall be 24 hours.

Note: BMS 1-72 silicone rubber was utilized for this test

BMS 1-72 Rubber	Swelling	Change in elongation	Change in tensile strength	Result
AS RECEIVED	< 5%	< 10%	< 15%	Conforms

	A C
Decuit	Conforms
Result	COMBUNIO

3.2.2.2.4 Effect on Vinyl Surfaces: Disinfectant shall neither cause scratching nor more than a minimal color change or staining, when tested in accordance with ASTM F2109.

AS RECEIVED:

No scratching / discoloration

Result	Conforms

3.2.2.2.5 Effect on Tedlar Surfaces: Disinfectant shall neither cause scratching nor more than a minimal color change or staining, when tested in accordance with ASTM F2109.

AS RECEIVED:

No scratching / discoloration

Result	Conforms	
. 10001	VVIII011113	

3.2.3 Long Term Storage Stability: The disinfectant, as delivered, shall be tested in accordance with ASTMF1104, and shall be restorable to its original appearance by moderate shaking, and shall meet all technical requirements after the storage stability period of 1 year.

Result	Not	performed	
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