SMI, Inc. 12219 SW 131 Avenue Miami, Florida 33186-6401 USA

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Attn:

Wayne K. Morris

Date:

30-Sep-2020

3M Center

Bldg 230-1S-10

Maplewood, MN 55144-1000

SMI/REF:

2002-373

V3V 3K9 Canada

Product:

3M INDUSTRIAL CLEANER BULK (received 28-Jul-2020)

Dilution:

As received

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BAC 5750 SOLVENT CLEANING

Revision R (09-Mar-2017) Process: General Cleaning (G) Substrate: Metal

Sandwich Corrosion	Conforms		
Hydrogen Embrittlement	Conforms		
Stress Corrosion Cracking	Conforms		

Respectfully submitted,

Patricia D. Viani, SMI Inc.

Client:

3M Center

Product:

3M INDUSTRIAL CLEANER BULK

Dilution: As received

BAC 5750

Date:

30-Sep-2020

SMI/REF: 2002-373

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SANDWICH CORROSION TEST (SC) (per Section 12.3.1)

Specimens are AMS-QQ-A-250/12 Al Alloy 7075-T6 (nonclad) and AMS-QQ-A-250/13 Al Alloy Alclad 7075-T6. Use the recommended dimensions in accordance with ASTM F1110.

ALLOY	Results	
ALLOY	CONTROL	PRODUCT
AMS-QQ-A-250/12 Aluminum 7075-T6 (nonclad)	No discoloration nor staining (RATING = 1)	No discoloration nor staining (RATING = 1)
AMS-QQ-A-250/13 Aluminum 7075-T6 (alclad)	No discoloration nor staining (RATING = 1)	No discoloration nor staining (RATING = 1)

Result	Conforms

Hydrogen Embrittlement (HE) (per ASTM F519, Type 1a2)

Testing was performed in accordance with ASTM F519, utilizing Type 1a2 specimens, cadmium plated in accordance with MIL-STD-870, Class 1. The load was 45% of the predetermined breaking strength; specimens were surrounded by the product (wet immersion) for the entire duration of the test (150 hours), at room temperature.

#1:	No failure occurred within 150 hours
#2:	No failure occurred within 150 hours
#3:	No failure occurred within 150 hours
#4:	No failure occurred within 150 hours

Result Conforms	
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Client: Product:

3M Center

3M INDUSTRIAL CLEANER BULK

Date: SMI/REF:

30-Sep-2020 2002-373

Dilution: BAC 5750

As received

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Stress Corrosion Cracking (SCC) (per ASTM F 945 Method A):

Alloy		OBSERVATION	RESULT
AMS 4911 Blank Control* AMS 4911 3% Salt Control	# 1	No evidence of cracking.	
	# 2	No evidence of cracking.	Confirmed:
	#3	No evidence of cracking.	AMS 4911 Titanium
	# 1	Cracking evident.	sheet meets
	#2	Cracking evident.	acceptability and sensitivity criteria
	# 3	Cracking evident.	
AMS 4911	#1	No evidence of cracking.	Conforms
CANDIDATE SOLUTION	# 2	No evidence of cracking.	Conforms
	# 3	No evidence of cracking.	Conforms
AMS 4916 Blank Control*	# 1	No evidence of cracking.	
	#2	No evidence of cracking.	Confirmed:
	#3	No evidence of cracking.	AMS 4916 Titanium
AMS 4916	# 1	Cracking evident.	sheet meets
100 ppm Salt	#2	Cracking evident.	acceptability and sensitivity criteria
100 ppm Salt Control	#2		sensitivity criteria
	# 3 # 1	Cracking evident.	
Control	# 3	Cracking evident. Cracking evident.	sensitivity criteria

^{*}Specimens dipped in MEK (methyl ethyl ketone) were utilized as "blank" controls.

Neither AMS 4911 nor AMS 4916 titanium exhibited cracking when exposed to candidate solution in accordance with ASTM F945, Method A.

Result	Conforms
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