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Date: 03-Dec-2021

SMI/REF: 1310-116A

Product: Suprasolv (received 04-Nov-2021)

Dilution: As received

Page 1 of 3

BAC 5750
SOLVENT CLEANING
Revision L (02-Apr-2001)
Process: General Cleaning of Metal

Sandwich Corrosion

Conforms

Hydrogen Embrittlement

Conforms

Stress Corrosion Cracking

Conforms

Respectfully submitted,



Patricia D. Viani, SMI Inc.

Client: InTech Environmental Canada
Product: SupraSolv
Dilution: As received
BAC 5750

Date: 03-Dec-2021
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Sandwich Corrosion (per ASTM F1110)

Requirement: EEPC (Equals or exceeds the performance of the control)

Candidates that pass this test with distilled or deionized water (ASTM D 1193, any Type) as Control meet the SC test requirements.

- 12.3.1 SANDWICH CORROSION TEST (SC)
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	
	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 (per ASTM F519, Type 1a)

Testing was performed in accordance with ASTM F519, utilizing Type 1a 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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Stress Corrosion Cracking (per ASTM F 945 Method A):

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

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

Neither AMS 4911 or AMS 4916 titanium exhibited cracking when exposed to candidate solution in accordance with ASTM F945, Method A.

Result Conforms