

SMI, Inc.

12219 SW 131 Avenue
Miami, Florida 33186-6401 USA

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Attn: Marc Skiersch
Reliance Specialty Products, Inc
855 Morse Avenue
Elk Grove Village, IL 60007

Date: 15-Aug-2019

SMI/REF: 1903-588R
Revised for product name change

Product: **AeroTron -AV** (received 20-May-2019)

Dilution: As received

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Pratt & Whitney
PWA 36604 Revision E
ARP 1755B
EFFECT OF CLEANING AGENTS ON AIRCRAFT ENGINE MATERIALS
Stock Loss Test Method

Dilution: As received
Temperature: 109°F (43°C)
Immersion Time: 60 minutes

Result See attached

Respectfully submitted,



Patricia D. Viani, SMI Inc.

Client: Reliance Specialty Products, Inc.
 Product: AeroTron -AV

PWA 36604: ARP 1755B

Date: 15-Aug-2019
 SMI/REF: 1903-588R
 Revised for product name change
Page 2 of 3

This section to be completed by the VENDOR or by the LABORATORY conducting the test.

Vendors Name: **Reliance Specialty Products, Inc.**
 Address: 855 Morse Avenue
 Elk Grove Village, IL 60007
 Telephone: (847) 640-8923

Name of Laboratory: **SMI, Inc.**
 Address: 12219 SW 131 Ave
 Miami, FL 33186
 Telephone: (305) 971-7047

Product Name or Reference No.:	Category (Table 1)	Dilution Operating Limits	Temperature Operating Limits	Recommended Cycle Time in Minutes	Date Submitted
AeroTron -AV	10	Tested: As received	Tested at a temperature of: 109°F (43°C)	Tested utilizing an immersion time of: 60 minutes	20 May 2019

THIS SECTION FOR ENGINE MANUFACTURERS USE ONLY:

Engine Mfr. Prelim. OK for Service Test	Name and Location of Recognized Overhaul Shop & Starting Date	Engine Mfr. Field Rep. Report No. & Date Received	Date Final OK for Service Use	Engine Mfr. Designation for This Product, If Any	AMS Number

Respectfully submitted,


Patricia D. Viani, SMI Inc.

Client: Reliance Specialty Products, Inc.
 Product: AeroTron -AV

PWA 36604: ARP 1755B

Date: 15-Aug-2019
 SMI/REF: 1903-588R
 Revised for product name change
Page 2 of 3


This section to be completed by the VENDOR or by the LABORATORY conducting the test.

Vendors Name: **Reliance Specialty Products, Inc.** Name of Laboratory: **SMI, Inc.**
 Address: 855 Morse Avenue 12219 SW 131 Ave
 Elk Grove Village, IL 60007 Miami, FL 33186
 Telephone: (847) 640-8923 Telephone: (305) 971-7047

Product Name or Reference No.:	Category (Table 1)	Dilution Operating Limits	Temperature Operating Limits	Recommended Cycle Time in Minutes	Date Submitted
AeroTron -AV	12	Tested: As received	Tested at a temperature of: 109°F (43°C)	Tested utilizing an immersion time of: 60 minutes	20 May 2019

THIS SECTION FOR ENGINE MANUFACTURERS USE ONLY:

Engine Mfr. Prelim. OK for Service Test	Name and Location of Recognized Overhaul Shop & Starting Date	Engine Mfr. Field Rep. Report No. & Date Received	Date Final OK for Service Use	Engine Mfr. Designation for This Product, If Any	AMS Number

Respectfully submitted,

 Patricia D. Viani, SMI Inc.

Client: Reliance Specialty Products, Inc.
 Product: AeroTron -AV
 Dilution: As received
 Temperature: 109°F (43°C)
 Immersion Time for Test: 60 minutes
PWA 36604: ARP 1755B Category 10-Aqueous Cleaner

Date: 15-Aug-2019
 SMI/REF: 1903-588R
 Revised for product name change

Vendor Name: Reliance Specialty Products, Inc.
 Product Name: AeroTron -AV

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UNCOATED PANELS

Alloy	Not Rec'd	Panel Serial Number	Loss in Inches	Panel Serial Number	Loss in Inches	Panel Serial Number	Loss in Inches	Average Loss in Inches	Average Weight Loss
AMS 4037 Aluminum		1AL37	<0.000010	2AL37	<0.000010	3AL37	<0.000010	<0.000010	(per 2"x4" panel) 0.0032 g
AMS 4375 Magnesium		1MG75	<0.000010	2MG75	<0.000010	3MG75	<0.000010	<0.000010	0.0012 g
AMS 4442 Magnesium		1MG42	<0.000010	2MG42	<0.000010	3MG42	<0.000010	<0.000010	0.0021 g
AMS 4507 Copper		1CU07	<0.000010	2CU07	<0.000010	3CU07	<0.000010	<0.000010	0.0004 g
AMS 5544 Nickel		1NI44	<0.000010	2NI44	<0.000010	3NI44	<0.000010	<0.000010	0.0001 g
AMS 4640 Aluminum Bronze		1AB40	<0.000010	2AB40	<0.000010	3AB40	<0.000010	<0.000010	0.0012 g
AMS 4911 Titanium		1TI11	<0.000010	2TI11	<0.000010	3TI11	<0.000010	<0.000010	0.0006 g
AMS 5040 Steel		1ST40	<0.000010	2ST40	<0.000010	3ST40	<0.000010	<0.000010	0.0003 g
AMS 5582 Cobalt		1CO82	<0.000010	2CO82	<0.000010	3CO82	<0.000010	<0.000010	0.0005 g
AMS 5504 Corrosion Resistant Steel		1ST04	<0.000010	2ST04	<0.000010	3ST04	<0.000010	<0.000010	0.0003 g
AMS 5508 Corrosion Resistant Steel		1ST08	<0.000010	2ST08	<0.000010	3ST08	<0.000010	<0.000010	0.0002 g
AMS 5524 Corrosion Resistant Steel		1ST24	<0.000010	2ST24	<0.000010	3ST24	<0.000010	<0.000010	0.0005 g
AMS 5525 Corrosion Resistant Steel		1ST25	<0.000010	2ST25	<0.000010	3ST25	<0.000010	<0.000010	0.0006 g
AMS 5536 Nickel		1NI36	<0.000010	2NI36	<0.000010	3NI36	<0.000010	<0.000010	0.0009 g
AMS 5537 Cobalt		1CO37	<0.000010	2CO37	<0.000010	3CO37	<0.000010	<0.000010	0.0002 g
AMS 5596 Nickel		1NI96	<0.000010	2NI96	<0.000010	3NI96	<0.000010	<0.000010	0.0003 g
AMS 5661 Nickel		1NI61	<0.000010	2NI61	<0.000010	3NI61	<0.000010	<0.000010	0.0059 g
AMS 6431 Steel		1ST31	<0.000010	2ST31	<0.000010	3ST31	<0.000010	<0.000010	0.0022 g
AMS 4434 (AZ92) Magnesium		1AZ92	<0.000010	2AZ92	<0.000010	3AZ92	<0.000010	<0.000010	0.0028 g
Mar-MTM_002									
IMI™_685									

ELECTROPLATED PANELS

AMS	Electroplating Treatment	1EAN	2EAN	3EAN	Average Loss in Inches	Average Weight Loss
AMS 4037/AMS 2470	Anodic Treatment	<0.000010	<0.000010	<0.000010	<0.000010	(per 2"x4" panel) 0.0007 g
AMS 5504/AMS 2400	Cadmium Plated	<0.000010	<0.000010	<0.000010	<0.000010	0.0005 g
AMS 5504/AMS 2406	Chromium Plating	<0.000010	<0.000010	<0.000010	<0.000010	0.0001 g
AMS 5504/AMS 2410	Silver Plating	<0.000010	<0.000010	<0.000010	<0.000010	0.0001 g
AMS 5504/AMS 2416	Ni-Cad Plating	<0.000010	<0.000010	<0.000010	<0.000010	0.0009 g
AMS 5504/AMS 2418	Copper Plating	<0.000010	<0.000010	<0.000010	<0.000010	0.0001 g
AMS 5504/AMS 2424	Nickel Plating	<0.000010	<0.000010	<0.000010	<0.000010	0.0006 g


PLASMA COATED PANELS (plasma coated on one side only)

AMS	Plasma Coating	1PT2	2PT2	3PT2	Average Loss in Inches	Average Weight Loss
AMS 4911/AMS 2437-3		<0.00010	<0.00010	<0.00010	<0.00010	(per 1"x3" panel) 0.0004 g
AMS 5504/AMS 2437-2		<0.00010	<0.00010	<0.00010	<0.00010	0.0002 g
AMS 5504/AMS 2437-3		<0.00010	<0.00010	<0.00010	<0.00010	0.0004 g
AMS 5504/AMS 2437-5		<0.00010	<0.00010	<0.00010	<0.00010	0.0006 g
AMS 5504/AMS 2437-6		<0.00010	<0.00010	<0.00010	<0.00010	0.0001 g
AMS 5504/AMS 2437-7		<0.00010	<0.00010	<0.00010	<0.00010	0.0009 g

Notes: No visible "smut" / discoloration.

The maximum allowable stock loss is 0.000025" for any alloy panel or electroplated panel.
 The maximum allowable stock loss is 0.0001" for plasma spray deposits.
 For informational purposes only, not currently required for ARP 1755B.

Result: Conforms

Respectfully submitted,

 Patricia D. Viani, SMI Inc.

Client: Reliance Specialty Products, Inc.
 Product: AeroTron -AV
 Dilution: As received
 Temperature: 109°F (43°C)
 Immersion Time for Test: 60 minutes
PWA 36604: ARP 1755B Category 12-Organic Solvent Cleaner

Date: 15-Aug-2019
 SMI/REF: 1903-588R
 Revised for product name change

Vendor Name: Reliance Specialty Products, Inc.
 Product Name: AeroTron -AV Alloy

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Alloy	Not Rec-d	Panel Serial Number	Loss in Inches	Panel Serial Number	Loss in Inches	Panel Serial Number	Loss in Inches	Average Loss in Inches	Average Weight Loss
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UNCOATED PANELS									
AMS 4037 Aluminum		1AL37	<0.000010	2AL37	<0.000010	3AL37	<0.000010	<0.000010	(per 2"x4" panel) 0.0032 g
AMS 4375 Magnesium		1MG75	<0.000010	2MG75	<0.000010	3MG75	<0.000010	<0.000010	0.0012 g
AMS 4442 Magnesium		1MG42	<0.000010	2MG42	<0.000010	3MG42	<0.000010	<0.000010	0.0021 g
AMS 4507 Copper		1CU07	<0.000010	2CU07	<0.000010	3CU07	<0.000010	<0.000010	0.0004 g
AMS 5544 Nickel		1NI44	<0.000010	2NI44	<0.000010	3NI44	<0.000010	<0.000010	0.0001 g
AMS 4640 Aluminum Bronze		1AB40	<0.000010	2AB40	<0.000010	3AB40	<0.000010	<0.000010	0.0012 g
AMS 4911 Titanium		1TI11	<0.000010	2TI11	<0.000010	3TI11	<0.000010	<0.000010	0.0006 g
AMS 5040 Steel		1ST40	<0.000010	2ST40	<0.000010	3ST40	<0.000010	<0.000010	0.0003 g
AMS 5582 Cobalt		1CO82	<0.000010	2CO82	<0.000010	3CO82	<0.000010	<0.000010	0.0005 g
AMS 5504 Corrosion Resistant Steel		1ST04	<0.000010	2ST04	<0.000010	3ST04	<0.000010	<0.000010	0.0003 g
AMS 5508 Corrosion Resistant Steel		1ST08	<0.000010	2ST08	<0.000010	3ST08	<0.000010	<0.000010	0.0002 g
AMS 5524 Corrosion Resistant Steel		1ST24	<0.000010	2ST24	<0.000010	3ST24	<0.000010	<0.000010	0.0005 g
AMS 5525 Corrosion Resistant Steel		1ST25	<0.000010	2ST25	<0.000010	3ST25	<0.000010	<0.000010	0.0009 g
AMS 5536 Nickel		1NI36	<0.000010	2NI36	<0.000010	3NI36	<0.000010	<0.000010	0.0006 g
AMS 5537 Cobalt		1CO37	<0.000010	2CO37	<0.000010	3CO37	<0.000010	<0.000010	0.0002 g
AMS 5596 Nickel		1NI96	<0.000010	2NI96	<0.000010	3NI96	<0.000010	<0.000010	0.0003 g
AMS 5661 Nickel		1NI61	<0.000010	2NI61	<0.000010	3NI61	<0.000010	<0.000010	0.0059 g
AMS 6431 Steel		1ST31	<0.000010	2ST31	<0.000010	3ST31	<0.000010	<0.000010	0.0022 g
AMS 4434 (AZ92) Magnesium ¹		1AZ92	<0.000010	2AZ92	<0.000010	3AZ92	0.000016	<0.000010	0.0028 g
Mar-M TM -002			(not tested due to unavailability of alloy. Rolls Royce material)						
IMI TM -685			(not tested due to unavailability of alloy. Rolls Royce material)						

ELECTROPLATED PANELS									
AMS 4037/AMS 2470 Anodic Treatment		1EAN	<0.000010	2EAN	<0.000010	3EAN	<0.000010	<0.000010	(per 2"x4" panel) 0.0007 g
AMS 5504/AMS 2400 Cadmium Plated		1ECD	<0.000010	2ECD	<0.000010	3ECD	<0.000010	<0.000010	0.0005 g
AMS 5504/AMS 2406 Chromium Plating		1ECR	<0.000010	2ECR	<0.000010	3ECR	<0.000010	<0.000010	0.0001 g
AMS 5504/AMS 2410 Silver Plating		1EAG	<0.000010	2EAG	<0.000010	3EAG	<0.000010	<0.000010	0.0001 g
AMS 5504/AMS 2416 Ni-Cad Plating		1ENC	<0.000010	2ENC	<0.000010	3ENC	<0.000010	<0.000010	0.0009 g
AMS 5504/AMS 2418 Copper Plating		1ECO	<0.000010	2ECO	<0.000010	3ECO	<0.000010	<0.000010	0.0001 g
AMS 5504/AMS 2424 Nickel Plating		1ENI	<0.000010	2ENI	<0.000010	3ENI	<0.000010	<0.000010	0.0006 g

PLASMA COATED PANELS (plasma coated on one side only)									
AMS 4911/AMS 2437-3		1PT2	<0.000010	2PT2	<0.000010	3PT2	<0.000010	<0.000010	(per 1"x3" panel) 0.0004 g
AMS 5504/AMS 2437-2		1P-2	<0.000010	2P-2	<0.000010	3P-2	<0.000010	<0.000010	0.0002 g
AMS 5504/AMS 2437-3		1P-3	<0.000010	2P-3	<0.000010	3P-3	<0.000010	<0.000010	0.0004 g
AMS 5504/AMS 2437-5		1P-5	<0.000010	2P-5	<0.000010	3P-5	<0.000010	<0.000010	0.0006 g
AMS 5504/AMS 2437-6		1P-6	<0.000010	2P-6	<0.000010	3P-6	<0.000010	<0.000010	0.0001 g
AMS 5504/AMS 2437-7		1P-7	<0.000010	2P-7	<0.000010	3P-7	<0.000010	<0.000010	0.0009 g

Notes: No visible "smut" / discoloration.
 The maximum allowable stock loss is 0.000025" for any alloy panel or electroplated panel.
 The maximum allowable stock loss is 0.0001" for plasma spray deposits.
 For informational purposes only, not currently required for ARP 1755B.

Result: _____ Conforms _____
 Respectfully submitted,
 Patricia D. Viani, SMI Inc.