



TEST REPORT

In Account With SPECIALTY SILICONE PRODUCTS CORPORATE TECHNOLOGY PARK 3 McCrea Hill Road Ballston Spa, NY 12020 Attn: Sarah Lewis	Date November 3, 2020	Page 1 of 3 Pages
	W.O. Number 69389	Specification ASTM E595
	P.O. No. 0029870	Received 10-14-2020

IDENTIFICATION: Four (4) sample materials were submitted for Outgas Testing in accordance with ASTM E595. The test samples were identified as follows:

- 1) SSP2551 Batch AA017 No PSA
- 2) SSP2551 Batch AA017 with PSA
- 3) SSP550-70 Passivated batch AJ031 no PSA
- 4) SSP550-70 Passivated batch AJ031 with PSA

SPECIFICATION : ASTM E595.

REFERENCE : Purchase Order Number 0029870.

TESTING : Outgas Testing.

SUMMARY : The test results, reported herein, are submitted for customer evaluation.

Respectfully submitted,
PACIFIC TESTING LABORATORIES, INC.

Casie Giblin
Materials Engineer

Reviewed by,

Hans Shin
Laboratory Director

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OUTGAS TESTING

REFERENCE : ASTM E595.

REQUIREMENT : ASTM E595, paragraph 1.5:

The criteria used for the acceptance and rejection of materials shall be determined by the user and based upon specific component and system requirements. Historically, a total mass loss (TML) of 1.00% and collected volatile condensable material (CVCM) of 0.10% have been used as screening levels for rejection of spacecraft materials.

TEST METHOD : The Outgas Test was performed in a vacuum environment of less than 5×10^{-5} torr according to ASTM E595, for a duration of 24 hours, at 125°. The TML, CVCM, and the amount of Water Vapor Recovered (WVR) were measured after the test.

RESULTS : The following tables list the results of the testing:

Table 1: Outgas test results.

Sample	TML (%)	CVCM (%)	WVR (%)
SSP2551 Batch AA017 No PSA	0.42	0.01	0.04
SSP2551 Batch AA017 with PSA	0.39	0.02	0.04
SSP550-70 Passivated batch AJ031 no PSA	0.41	0.03	0.04
SSP550-70 Passivated batch AJ031 with PSA	0.43	0.03	0.04

Table 2: Testing observation results for SSP2551 Batch AA017 No PSA (for information/reference only).

Observations			
Visible Condensate	Yes	Opaque	Yes
Percent Covered	50%	Interference Fringes	No
Thin	Yes	Colored Fringes	No
Heavy	No	Sample appearance after test	No change
Transparent	No		

RESULTS :
(continued)

Table 3: Testing observation results for SSP2551 Batch AA017 with PSA . (for information/reference only).

Observations			
Visible Condensate	Yes	Opaque	Yes
Percent Covered	50%	Interference Fringes	No
Thin	Yes	Colored Fringes	No
Heavy	No	Sample appearance after test	No change
Transparent	No		

Table 4: Testing observation results for SSP550-70 Passivated batch AJ031 no PSA (for information/reference only).

Observations			
Visible Condensate	Yes	Opaque	Yes
Percent Covered	75%	Interference Fringes	No
Thin	Yes	Colored Fringes	No
Heavy	No	Sample appearance after test	No change
Transparent	No		

Table 5: Testing observation results for SSP550-70 Passivated batch AJ031 with PSA (for information/reference only).

Observations			
Visible Condensate	Yes	Opaque	Yes
Percent Covered	75%	Interference Fringes	No
Thin	Yes	Colored Fringes	No
Heavy	No	Sample appearance after test	No change
Transparent	No		

REMARKS : The test results, reported herein, are submitted for customer evaluation.