TEST REPORT

In Account With	Date	
SPECIALTY SILICONE PRODUCTS	December 10, 2018	Page 1 of 3 Pages
CORPORATE TECHNOLOGY PARK 3 McCrea Hill Road Ballston Spa, NY 12020	W.O. Number 64315	Specification ASTM E 595
Attn: Marty Migliori	P.O. No. 0027493	Received 11-29-18

IDENTIFICATION: Five (5) sample materials were submitted for Outgas Testing in accordance with

ASTM E 595. The test samples were identified as follows:

1) SSP2529 JM20 2/177C

2) SSP2486-70DB

3) SSP2368-65DB

4) SSP2476-65

5) R+D 18-1109-3

SPECIFICATION: ASTM E 595.

REFERENCE: Purchase Order Number 0027493.

TESTING : Outgas Testing.

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

Respectfully submitted,

PACIFIC TESTING LABORATORIES, INC.

Hans Shin

Reviewed by,

Laboratory Director

Casie Giblin
Materials Engineer

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OUTGAS TESTING

REFERENCE: ASTM E 595.

REQUIREMENT: ASTM E 595, 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 X 10⁻⁵ torr

according to ASTM E 595, for a duration of 24 hours, at 125°C. 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
	(%)	(%)	(%)
SSP2529 JM20 2/177C	0.27	0.09	0.03
SSP2486-70DB	0.14	0.05	0.02
SSP2368-65DB	0.08	0.03	0.01
SSP2476-65	0.07	0.04	0.02
R+D 18-1109-3	0.11	0.03	0.05

Table 2: Testing observation results for SSP2529 JM20 2/177C.

Observations			
Visible Condensate	Yes	Opaque	No
Percent Covered	100%	Interference Fringes	No
Thin	No	Colored Fringes	No
Heavy	Yes	Sample appearance after test	No abanga
Transparent	Yes		No change

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RESULTS : (continued)

Table 3: Testing observation results for SSP2486-70DB.

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

Table 4: Testing observation results for SSP2368-65DB.

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

Table 5: Testing observation results for SSP2476-65.

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

Table 6: Testing observation results for R+D 18-1109-3.

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

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