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TEST REPORT

In Account With	Date	
AEROSPACE FABRICATION & MATERIALS, LLC 5147 208TH Street West Farmington, MN 55024 Attn: Kirk W. Switzer	August 1, 2024	Page 1 of 2 Pages
	W.O. Number 79277	Test Report Number TR79277
	P.O. No. PO-11860	Received 07/12/2024

IDENTIFICATION: Two (2) "assembly" sample materials were submitted for Outgas Testing in accordance with ASTM E595. The test samples were identified as follows:

1) VB240708001, 24-0203, LF2-180RN AFM LOT C24-511
2) VB240708001, 24-0203, LF2-10NA1 AUG 12 2024 C24-510

JV

AFM 10

SPECIFICATION : ASTM E595.

REFERENCE : Purchase Order Number PO-11860.

TESTING : Outgas Testing.

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

Respectfully submitted,
PACIFIC TESTING LABORATORIES, INC.

Hans Shin
Laboratory Director

Aileen Shin
Materials Engineer

This report applies only to the sample(s) tested and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and Pacific Testing Laboratories, Inc., this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Pacific Testing Laboratories, Inc.

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 X 10^{-5} torr according to ASTM E595, for a duration of 24 hours, at 125°C on one specimen per sample (unless otherwise noted). The TML, CVCM, and the amount of Water Vapor Recovered (WVR) were measured after the test and the values reported.

RESULTS:

The following tables list the results of the testing:

Table 1. Outgas test results.

Sample	TML (%)	CVCM (%)	WVR (%)
VB240708001, 24-0203, LF2-180RN	2.31	0.03	1.90
VB240708001, 24-0203, LF2-10NA1	2.14	0.04	1.69

Table 2. Testing observation results (for information/reference only).

Sample	Visible Condensate (CVCM)	Percent Covered (CVCM)	Thin / Heavy (CVCM)	Opaque / Transparent (CVCM)	Interference Fringes (CVCM)	Colored Fringes (CVCM)	Appearance After Test (Sample)
VB240708001, 24-0203, LF2-180RN	Yes	100%	Thin	Opaque	No	No	No change
VB240708001, 24-0203, LF2-10NA1	Yes	100%	Thin	Opaque	No	No	No change

AFM LOT
AUG 12 2024
C24-511
C24-510

REMARKS:

JN AFM 10

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