



TEST REPORT

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| In Account With ND TECHNOLOGIES GROUP 1896 Barrett Drive Troy, MI 48084 Attn: Christopher Hable | Date February 5, 2015 | Page 1 of 2 Pages |
| | W.O. Number 52932A | Specification NASA SP-R-0022A |
| | P.O. No. 08-02919 | Received 01-26-15 |

IDENTIFICATION : One (1) sample material was submitted for Outgas Testing in accordance with ASTM E 595. The test sample was identified as follows:

1) Vibra-TITE VC3, Lot NB173P108

SPECIFICATION : NASA SP-R-0022A.

REFERENCE : Purchase Order Number 08-02919.

TESTING : Outgas Testing.

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

Respectfully submitted,
PACIFIC TESTING LABORATORIES, INC.

Casie Wilson
Materials Engineer

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OUTGAS TESTING

REFERENCE : ASTM E 595, NASA SP-R-0022A.

REQUIREMENT : NASA SP-R-0022A, Paragraph 2.0

2.0 Requirements

The material shall have a maximum total mass loss (TML) of 1.0 percent of the original specimen mass and a maximum volatile condensable material (VCM) content of 0.1 percent of the original specimen mass when tested in accordance with the test procedure in paragraph 6.

TEST METHOD : The Outgas Test was performed in a vacuum environment of less than 1×10^{-6} torr according to NASA SP-R-0022A, 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 table lists the results of the testing:

| Sample | TML (%) | CVCM (%) | WVR (%) |
|---------------------------------|------------|-------------|------------|
| Vibra-TITE VC3 Lot NB173P108 | 0.9 | 0.1 | 0.1 |

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