

Fire Test Report
API Standard 6FB, Third Edition

Performed for

Advanced Sealing & Supply Co., Inc.

www.advseal.com



ALKY ONE Gasket

6 inch Class 300

Project Number: 210238

February 1, 2011



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY, LLC

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Yarmouth Research and Technology, LLC

API 6FB FIRE TEST REPORT

Customer: Advanced Sealing & Supply Co, Inc. **Date:** 2/1/2011
Product Code: 6 inch Class 300 ALKY ONE Gasket

Project Number: PN210238
Test Specification: API 6FB, Third Edition, Nov. 1998
Non-Bending, On-shore or Open-offshore Test
Seal Area OD: 8.60 **Seal Area ID:** 7.70 inches
Mean Seal Diameter: 8.2 inches ID of fire seal
Mean Circumference: 25.6 inches
Allowable Leakage: 25.6 ml/min
Nominal Test Pressure: 555 psig
YRT Technician: Matthew J. Wasielewski, P.E.

Version of YRT's FIRE-Control 6FB Software: A

Equipment Confirmed to be in Calibration to NIST Standards: Yes

Burn and Cool Down Test

| | | |
|--|----------|---------|
| Burn Start Time: | 11:34:00 | |
| Burn / Cooldown Duration: | 60 | minutes |
| Average Pressure During Burn/Cooldown: | 550 | psig |
| Leak Rate During Burn/Cool Down: | 4 | ml/min |
| Allowable External Leak Rate: | 25.6 | ml/min |
| Amount of Time of Avg. Cal. Block > 1200 deg.: | 18.0 | minutes |
| Were Test Conditions Within Compliance? | Yes | |
| Was the Leakage Below the Allowable? | Yes | |

Depressurization - Repressurization Test

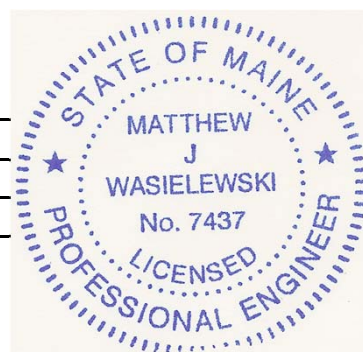
| | | |
|--------------------------------------|------|--------|
| Average Pressure During Test: | 558 | psig |
| Gasket Leak Rate: | 0 | ml/min |
| Allowable External Leak Rate: | 25.6 | ml/min |
| Was the Leakage Below the Allowable? | Yes | |

Does the Gasket Pass or Fail API 6FB? **PASS**

Witnesses



Note:



Yarmouth Research and Technology. LLC



Gasket Before Test



Gasket Fire Test



Gasket After Test

Yarmouth Research and Technology, LLC

Depressurization - Repressurization Test Information

Customer: Advanced Sealing & Supply Co, Inc.

Date: 2/1/2011

Product Code: 6 inch Class 300 ALKY ONE Gasket

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System pressure was lowered to 0 and then repressurized.

Operational Test Raw Data

| Time | Pressure (psig) | Average Block Temp-F |
|----------|-----------------|----------------------|
| 12:40:38 | 558 | 98 |
| 12:40:53 | 556 | 98 |
| 12:41:08 | 555 | 100 |
| 12:41:23 | 554 | 100 |
| 12:41:38 | 555 | 100 |
| 12:41:53 | 555 | 99 |
| 12:42:08 | 556 | 99 |
| 12:42:23 | 556 | 100 |
| 12:42:38 | 557 | 99 |
| 12:42:53 | 557 | 99 |
| 12:43:08 | 558 | 96 |
| 12:43:23 | 558 | 96 |
| 12:43:38 | 558 | 95 |
| 12:43:53 | 558 | 95 |
| 12:44:08 | 559 | 96 |
| 12:44:23 | 559 | 94 |
| 12:44:38 | 559 | 95 |
| 12:44:53 | 560 | 96 |
| 12:45:08 | 561 | 94 |
| 12:45:23 | 562 | 95 |
| 12:45:38 | 563 | 96 |

Leakage was collected manually.

| | | |
|--|------|--------|
| Total External Leakage Collected Over 5 Minute Duration: | 0 | mls |
| Average Leak Rate Over 5 Minute Duration: | 0.0 | ml/min |
| Allowable Leak Rate: | 25.6 | ml/min |

| | |
|--------------------------------------|-----|
| Was the Leakage Below the Allowable? | Yes |
|--------------------------------------|-----|