

# FIRE TEST QUALIFICATION CERTIFICATE



**Score (Europe) Ltd**



Customer	Novus Sealing Limited
Item	2" 300# Novus TI (Tanged) Gasket
Size	2"
Class	300#
Order No	0000010439
Unique No	224521-4
Serial No	No Data
Body Material	N/A
Seat	N/A
Manufactured by	Novus Sealing Limited
In accordance with job number	224521 COW
In accordance with drawing number	N/A

The above valve was tested by Score (Europe) Ltd at their Specialised Valve Research and Test Centre, Cowdenbeath, Scotland and the results have been recorded as a PASS, having complied with the minimum performance requirements stated in specification

API 6FB 3rd Edition May 1998, generally in accordance with the parameters of Section 3, Part 1

Test date	08/05/09
Other sizes qualified	N/A
Other pressure ranges qualified	N/A

**Tested by**  
S. Fox / S. Penman

**Witnessed by**  
W. Campbell Lloyd's Register EMEA

This certificate must be read in conjunction with the full Score Test Report Number **224521-4**





# FIRE TEST

Project: **Novus Sealing Ltd.**

Client: **Score Europe Ltd.**

Office: **Aberdeen**

Clients Order Number: **91754**

Date: **13 May 2009**

Order Status: **Complete**

Inspection Dates

First: **21 April 2009**

Final: **13 May 2009**

This certificate is issued to **Score Europe Ltd.**

As at their request the undersigned Surveyor did attend their Works at Woodend, Cowdenbeath, Fife, for the purpose of witnessing a Fire Test on a spiral wound gasket stated to be manufactured by Novus Sealing Ltd. order number 0000010439.

Novus T1(Tanged) Gasket.

Details of the test rig are as follows:-

Size: 2" Nom. Bore Flanges.  
Class: 300.

Score Unique No. 224521-4.

Temperature thermocouples were placed as follows:-

6. "Flame " Temperature °C.
7. "Flame" Temperature °C.
8. "Flame" Temperature °C.
9. "Calorimeter Cube" Temperature °C.
10. "Calorimeter Cube" Temperature °C.
11. "Calorimeter Cube" Temperature °C.
12. "Skin" Temperature. °C.

The Fire Test was carried out generally in accordance with the parameters of API Specification 6FB Third Edition May 1998 (Section 3 Part1) and Score Report Number 224521-4.

The valve was mounted into test stand with the Calorimeter Cubes and Flame Environment Thermocouples in their appropriate locations, which were connected to a Chessel Model 6180A temperature and pressure recorder, Serial Number GB-15998-1-1-0409-PL1 18 calibration of which was verified.

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All measuring and test equipment used was correctly calibrated.

The pipework was connected to the test rig, the system was filled with water and the air purged out. The system was checked for leaks by pressurising to 1.5 times maximum permissible working pressure and found tight.

During burn period the pressure was maintained at 38.5 Bar G by occasional manual adjustment.

On completion of the burn period of 30 minutes duration the rig was naturally cooled to 100°C.

Cool down took 28 minutes for skin temperature to reach 100°C.

The results of the Fire Test were then recorded as follows:-

External leakage during burn and cool down periods = 0ml = 0ml/min (allowable 10.62ml/min).

Assembly bleed to 0 Bar G observed for 1 minute.

Assembly repressurized, external leakage at test pressure of 38.5 Bar G over - 5 minutes - measured 0ml = 0ml/min (allowable 10.62ml/min).

The test was concluded at this point.

In respect of the test results now stated, it is considered that the Novus T1 (Tanged) gasket complies with the parameters of API Specification 6FB Third Edition May 1998 (Section 3 Part1) and Score Report Number 224521-4 for full details.

WL Campbell  
Surveyor to Lloyd's Register EMEA

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