

# Resistance of Elastomer Material to Explosive Decompression TEST CERTIFICATE

Requested by : *GREENE TWEED*

Elastomer Material :

- Manufacturer : *GREENE TWEED*
- Reference : *526*
- Batch number : *1001408378*
- Production period : *11/2007*
- Production unit Location :  
Town : *Kulpsville*  
Country : *USA*

Dimensions :

- Cross-section : *6.99 mm*
- Internal diameter : *113.67 mm*

Has been tested by our Center "Technologies de l'Etanchéité"

Test Protocol derived from : *TOTAL Procedure GS PVV 142 10/03 Rev 01*

Test conditions :

- Fluid : *80 % CH<sub>4</sub>, 20 % CO<sub>2</sub>*
- Pressure : *190 bar ± 2 bar*
- Temperature : *75°C ± 2 °C*
- Number of decompression : *5*
- Decompression rate : *190 to 0 bar in 90 s (linear decompression)*
- Soaking times : *72 h and 4 times 48 h*
- Dwell time : *1 h*
- Nominal groove fill : *73 %*
- Actual groove fill : *74,1%*
- Nominal axial compression : *13.7 %*
- Actual axial compression : *13.9 %*

Test result :

- No visible crack on the external surface of three O-rings tested simultaneously.
- The maximum Norsok rating (M710 rev. 02/10/02) is **0000**

In accordance with detailed test report N° *CET0025138/6J1/a* dated *6 February 2008*

Certificate N° *TDE 2008-03* delivered in Nantes, on *7 February 2008*.

By delegation of the General Manager, Philippe DE LACLOS  
Yves BIREMBAUT



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