

**- NORSOK M-710 -**  
**DECLARATION OF CONFORMITY**  
**GUARNIFLON MATERIALS**

A leading independent Test House has assessed the following Guarniflon materials:

- **PTFE G400** (Virgin PTFE)
- **PTFE G405** (PTFE + 25% Glass fibre)
- **PTFE G453** (PTFE + 25% Carbograpthite)

to the **NORSOK M-710** standard – “Qualification of non-metallic sealing materials and manufacturers” -Sour Aging Test-.

**All three materials resulted in conformity with the requirements of NORSOK M-710 as per Test Report No. C3076/1 dated 24<sup>th</sup> May 2012 issued by MERL Ltd.**

On the basis of examinations and analysis the independent test laboratory stated that “..the small and thermally-independent nature of the property changes indicates that they (*all three materials*) are chemically resistant to the test conditions and could be expected to maintain mechanical performance at temperatures up to the maximum used here ( 220°C ) for long period of service”



**Marco Nocera**  
**Quality & Customer Care Mgr.**

Castelli Calepio, 24.10.2012 - Rev.1

**Note**

**NORSOK M-710** is a standard for thermoplastics in environments simulating those found in oil & gas production. The standard is widely used by the Oil and Gas industry in screening and selection of polymeric materials for oilfield applications, including sour (hydrogen sulfide) service.

Exposures were performed in the NORSOK standard sour service test fluid: this contains a mixture of liquid hydrocarbons with methane, carbon dioxide and hydrogen sulfide in the gas phase. A range of temperatures up to 220°C were used. NORSOK M710 provides a standardised test method for comparing material performance in conditions simulating a sour oilfield environment.

It does not guarantee suitability for any particular service application. Users should take expert advice when choosing materials.

Note No. 2 : The customer must always specify in the Orders when an approval / certification stated in this document is necessary This because the approved materials follow a different internal procedure with respect to the standard materials.



**Guarniflon S.p.A.**  
**PTFE Products Division**  
Via T.Tasso 12 - 24060 Castelli Calepio (BG) IT  
Phone +39.035.4494311

Domestic Dept. Fax +39.035.4425191  
Export Dept. Fax +39.035.4425238

VAT N. IT 01406020162 - Reg. Imp. BG  
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**PTFE Finished and Semifinished Products**  
<http://www.guarniflon.com> | [info@guarniflon.com](mailto:info@guarniflon.com)  
Accounting Dept. Fax +39.035.4425249



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