



Industrie Service

**W.L. Gore & Associates GmbH
Wernher-von-Braun-Straße 18
85640 Putzbrunn**

The above organization is hereby entitled, on the basis of certificate No. 11 08 9045 006 and the appendant test report, to affix the certification body's certification mark shown below to the following product (see description below).



The product satisfies the following requirements

TA-Luft:

- Leakage test $\lambda < 10^{-4}$ mbar * l/(s * m) ($\sigma = 30$ MPa; $\Delta p = 1$ bar) (VDI 2440)
- Sealing characteristics as per EN 13555
- Continuous functionality under operating conditions (1500 h test)
- Blow-out resistance class C (VDI 2200 Draft June 2005)
- Blow-out resistance test step 2 (VDI 2200 Edition June 2007)

TRwS:

Blow-out resistance as per TÜV test standard $> 2.5 * p_{max}$

The product is thus a high-quality product as defined by the above requirements. The gasket also fulfils the requirements of the Pressure Equipment Directive 97/23/EC.

This certificate is based on the test program of TÜV Anlagen- und Umwelttechnik or VDI 2440, November 2000 edition, which covers qualification testing of flange seals with respect to their leak rate, blow-out resistance and continuous functionality and verification of sealing characteristics and controlled production quality. The above points were verified in an initial test. Prerequisite is the use of flange systems made of steel, which, when installed, achieve or exceed minimum surface pressure.

Note:

The allowable internal pressure decreases as the nominal width increases at constant residual surface pressure.

Product description:

GORÉ® GR Sheet Gasketing material made from 100 % expanded PTFE (polytetrafluoroethylene) with a multi-directionally orientated fibrous structure.

gasket thickness, uncompressed: 1.6 mm; 3.2 mm; 6,4 mm

Operating conditions:

Max. operating temperature:	230 °C
Max. positive operating pressure:	40 bar
Surface pressure for VDI 2440:	30 MPa

This certificate is valid until **August 2014**
Annual monitoring of production

Munich, August 24, 2011

TÜV SÜD Industrie Service GmbH
Institute for Plastics

i. A. Schweizer

