



FH Münster

Center of Sealing  
Technologies

Bürgerkamp 3  
D-48565 Steinfurt

# Certificate

**Z13011501**

The gasket type  
**AF-400**  
of the manufacturer

**GAMBIT LUBAWKA SP. Z O.O.**  
ul. Wojska Polskiego 16  
58-420 Lubawka, Poland

Has been tested in compliance with TA Luft in accordance with the VDI-Guideline 2200 (June 2007) by the Department of Gasketing Research of the University of Applied Sciences Münster. The test was verified in a first time test with following test conditions:

Initial gasket thickness:	2.0 mm
Test flange:	DN40/PN40
Initial gasket stress:	30.0 MPa
Exposure conditions:	250 °C / 48 h
Test conditions:	20 °C / 1 bar

The leak rate, measured at 20 °C, with a helium mass spectrometer and a differential pressure of 1 bar resulted in a leak rate of:

$$6.32 \cdot 10^{-5} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$$

Residual gasket stress: 12.2 MPa.

The maximum accepted leak rate of  $1.0 \cdot 10^{-4} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$  has not been exceeded. The above mentioned gasket is in accordance with TA Luft.

This test certificate is only valid in combination with the test report 13011501 dated on January the 30th 2013.

Steinfurt, 30.01.2013

Prof. Dr. A. Riedl