



FH Münster

Center of Sealing
Technologies

Bürgerkamp 3
D-48565 Steinfurt

Certificate

Z12100901

The gasket type
AF-Oil
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 2005) 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:

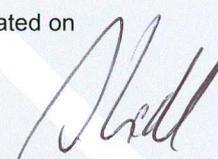
$$6.36 \cdot 10^{-8} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$$

Residual gasket stress: 13.5 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 12100901 dated on November the 27th 2012.

Steinfurt, 27.11.2012


Prof. Dr. A. Riedl