



**FH Münster**

Forschungsbereich  
Dichtungstechnik

Bürgerkamp 3  
48565 Steinfurt

# Zertifikat

**Z12112901-11**

The flat gasket type  
**GYLON® 3504**  
of the manufacturer

**GARLOCK GmbH**  
**Falkenweg 1**  
**41430 Neuss**  
**Germany**

has been tested in compliance with TA Luft in accordance with the VDI-guideline 2200 (2007-06) 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 mm
Test flange:	DN40/PN40, EN1092-1, type B, welding-neck, 1.4571
Initial gasket stress:	30 MPa
Thermal storage temperature:	200 °C
Thermal storage duration:	48 h
Test conditions:	20 °C

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:

$$2.67 \cdot 10^{-5} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$$

Residual gasket stress ( $Q_R$ ): 3.6 MPa.

The maximum acceptable leak rate of  $1.0 \cdot 10^{-4} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$  according to VDI-guideline 2440 (2000-11) has not been exceeded. The above mentioned gasket is in accordance with TA Luft.

The blowout safety test in accordance to VDI-guideline 2200 resulted for

Test step 1 at  $Q_R$ : 60 bar, no blowout

The issuance of this certificate is based upon examination and conditions, documented in test report 12112901-11

Steinfurt, 2019-04-18

Prof. Dr. A. Riedl