



C S T

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 (QR): 3.6 MPa.

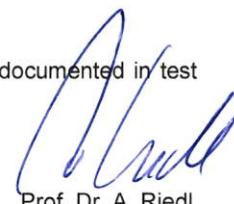
The maximum acceptable leak rate of $1.0 \cdot 10^{-4} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$ according to VDI-guideline 2440 (2000-11) has not been exceeded. The above mentioned gasket is in accordance with TA Luft.

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

Test step 1 at QR: 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