



GORE® Joint Sealant DF



Technical bulletin – TA Luft test to VDI 2200 (draft 06-2005) (“High-quality seal”)

Product: GORE® Joint Sealant DF
Test dates: September 2006
Test institute: Fachhochschule Münster
Test procedures: Component test to VDI 2200 (draft 06-2005)

TEST OVERVIEW:

In the TA Luft¹ component test, the seal is mounted in a DN40/PN40 steel flange with 30 MPa surface pressure. Since the GORE® Joint Sealant DF is a cord type sealant, the initial surface pressure was referenced to its initial width.

The flange is then exposed to the maximum recommended application temperature (here: 150 °C) for 48 hours.

The test setup is then allowed to cool and a leakage measurement is performed using helium over at least 24 hours. The differential pressure in this case is 1 bar.

The ultimate leakage after a test duration of 24 hours is not allowed to exceed 10^{-6} mbar*/l/(s*m). The seal then qualifies as “high-quality” in accordance with TA Luft.

¹ Technical instructions for air purity, for compliance with the German Federal Emissions Protection Act

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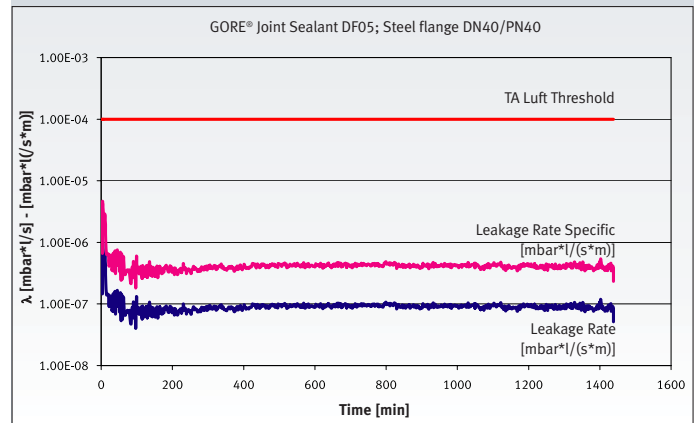
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TEST RESULTS:

The values recorded for the specific leakage, referenced to a seal length of 1 meter, are less than 10^{-6} mbar*/l/(s*m) and therefore the seal meets the criteria of TA Luft for a “high-quality seal”. A TA Luft certificate is available.



At an assumed average circumference of 219.91 mm! (according to DI = 65 mm and DO = 75 mm)

Gasket stress at installation 30 MPa (related to gasket according to EN 1514-1 with dimension DI = 48 mm and DO = 88 mm) elevated temperature: 150 °C, test pressure absolute: 1 bar