

# Certificate

<b>Gasket material:</b>	novatec® PREMIUM XP 2,0 mm
<b>Type:</b>	DN40/ PN40
<b>Test criteria:</b>	Compliance with the tightness criteria according to TA-Luft [10-4 mbar · l/(m · s)]
<b>standard:</b>	VDI-Guideline 2440 (edition November 2000) VDI-Guideline 2200 (edition Juni 2007)
<b>Test conditions:</b>	
	initial gasket stress: 30 MPa
	temperature of exposure : 200 °C
	period of exposure : 48 h
	test pressure (absolute) : 1 bar
	period of leakage
	measurement: : 24 h

**measured leak rate:**  $5,58 \cdot 10^{-5}$  mbar · l/(m · s)  
(Helium-leak detector)

Therefore the gasket is in compliance with the tightness criteria of  $10^{-4}$  mbar · l/(m · s) and the gasket material can be regarded as **high-grade** sealing system for the purposes of **TA-Luft**.

This certificate is only valid in combination with our laboratory test report (Report Nr.: EMP-LB-12-005\_1) of 27.09.2012 .

Bad Berneck, 23.01.2014

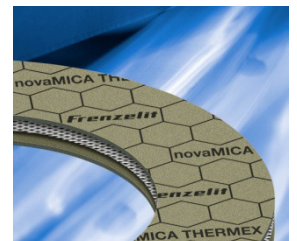
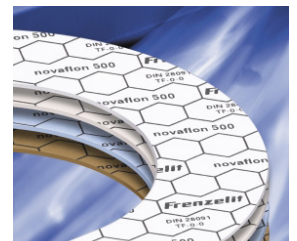
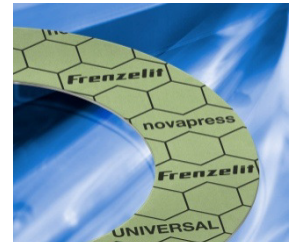
Frenzelit Werke GmbH



ppa. Bertram Axmann  
General Manager Gasket Division



i.A. Andreas Will  
Head of development/material testing



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<b>Type:</b>	DN40/ PN40	
<b>Test criteria:</b>	Compliance with the tightness criteria according to TA-Luft [10-4 mbar · l/(m · s)]	
<b>standard:</b>	VDI-Guideline 2440 (edition November 2000) VDI-Guideline 2200 (edition Juni 2007)	
<b>Test conditions:</b>	initial gasket stress:	30 MPa
	temperature of exposure :	250 °C
	period of exposure :	48 h
	test pressure (absolute) :	1 bar
	period of leakage	
	measurement: :	24 h

**measured leak rate:**  $3,09 \cdot 10^{-5}$  mbar · l/(m · s)  
(Helium-leak detector)

Therefore the gasket is in compliance with the tightness criteria of  $10^{-4}$  mbar · l/(m · s) and the gasket material can be regarded as **high-grade** sealing system for the purposes of **TA-Luft**.

This certificate is only valid in combination with our laboratory test report (Report Nr.: EMP-LB-12-005\_2) of 27.09.2012 .

Bad Berneck, 23.01.2014

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