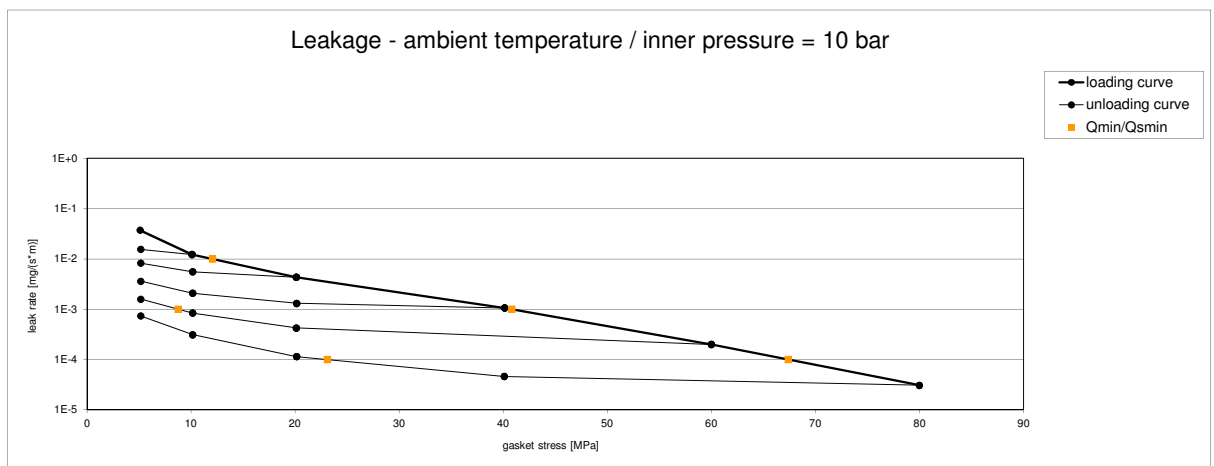


Dichtungskennwerte nach DIN EN 13555  
 Gasket characteristics acc. DIN EN 13555  
 novatec® PREMIUM XP

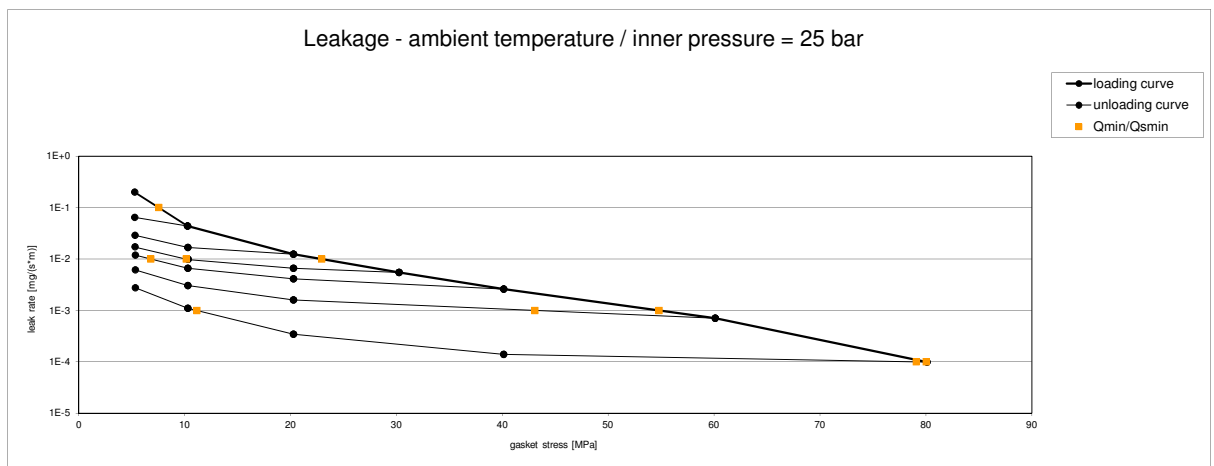


Company Address	Frenzelit Werke GmbH, Frankenhammer, 95460 Bad Berneck
Gasket Type	novatec PREMIUM XP
Sealing element dimensions [mm]	92 x 49 x 2

L [mg/(s·m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 10 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa					
10 <sup>-0</sup>	5	5	5	5	5	5					
10 <sup>-1</sup>	5	5	5	5	5	5					
10 <sup>-2</sup>	12		5	5	10	5					
10 <sup>-3</sup>	41				25	5					
10 <sup>-4</sup>	67					23					
10 <sup>-5</sup>											
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											



L [mg/(s·m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 25 bar									
		Q <sub>Smin/L</sub> [MPa]									
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 30 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa				
10 <sup>-0</sup>	5	5	5	5	5	5	5				
10 <sup>-1</sup>	8	5	5	5	5	5	5				
10 <sup>-2</sup>	23			10	7	5	5				
10 <sup>-3</sup>	55					43	11				
10 <sup>-4</sup>	80						79				
10 <sup>-5</sup>											
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											

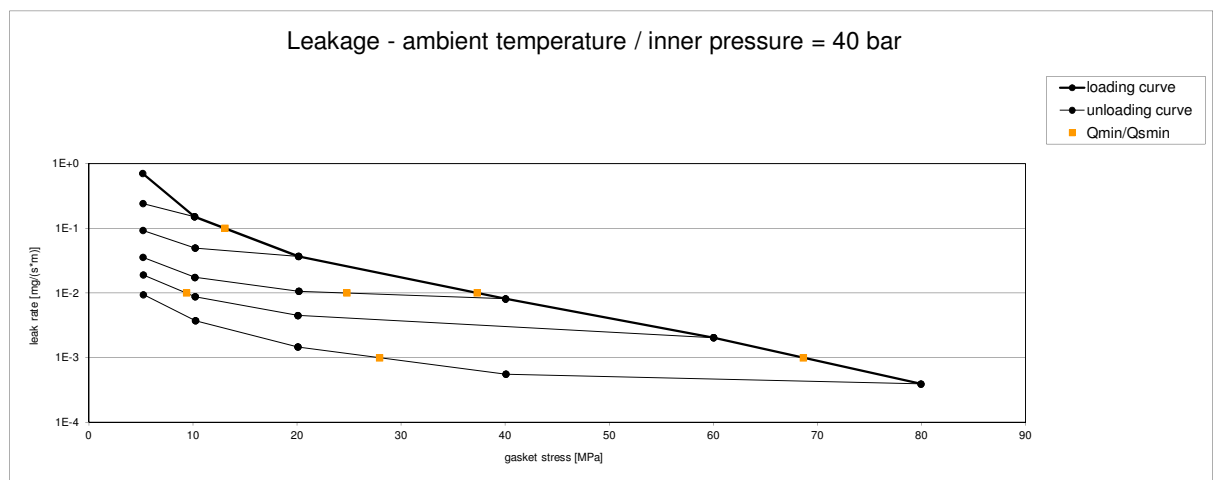


Dichtungskennwerte nach DIN EN 13555  
 Gasket characteristics acc. DIN EN 13555  
 novatec® PREMIUM XP

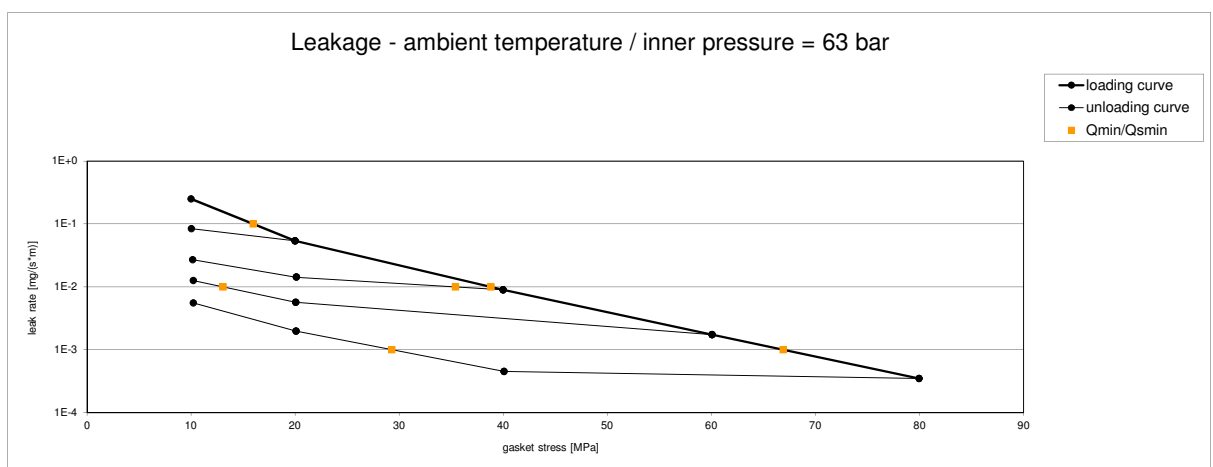


Company Address	Frenzelit Werke GmbH, Frankenhammer, 95460 Bad Berneck
Gasket Type	novatec PREMIUM XP
Sealing element dimensions [mm]	92 x 49 x 2

L [mg/(s·m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 40 bar					Q <sub>Smin/L</sub> [MPa]					
		Q <sub>A</sub> = 10 MPa	Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa						
10 <sup>-0</sup>	5	5	5	5	5	5						
10 <sup>-1</sup>	13		5	5	5	5						
10 <sup>-2</sup>	37			25	9	5						
10 <sup>-3</sup>	69					28						
10 <sup>-4</sup>												
10 <sup>-5</sup>												
10 <sup>-6</sup>												
10 <sup>-7</sup>												
10 <sup>-8</sup>												



L [mg/(s·m)]	Q <sub>min/L</sub> [MPa]	Minimum stress to seal Q <sub>min/L</sub> (at assembly), Q <sub>Smin/L</sub> (after off-loading) for p = 63 bar				Q <sub>Smin/L</sub> [MPa]					
		Q <sub>A</sub> = 20 MPa	Q <sub>A</sub> = 40 MPa	Q <sub>A</sub> = 60 MPa	Q <sub>A</sub> = 80 MPa						
10 <sup>-0</sup>	10	10	10	10	10						
10 <sup>-1</sup>	16	10	10	10	10						
10 <sup>-2</sup>	39		35	13	10						
10 <sup>-3</sup>	67				29						
10 <sup>-4</sup>											
10 <sup>-5</sup>											
10 <sup>-6</sup>											
10 <sup>-7</sup>											
10 <sup>-8</sup>											



Dichtungskennwerte nach DIN EN 13555  
 Gasket characteristics acc. DIN EN 13555  
 novatec® PREMIUM XP

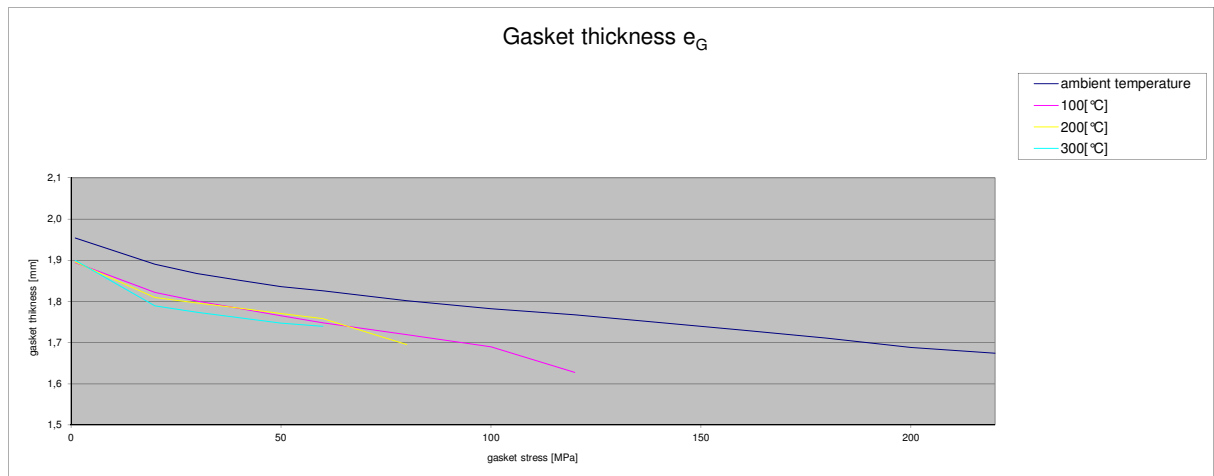


Company Address	Frenzelit Werke GmbH, Frankenhammer, 95460 Bad Berneck
Gasket Type	novatec PREMIUM XP
Sealing element dimensions [mm]	92 x 49 x 2

Relaxation ratio $P_{0.8}$ for stiffness $C = 500$ kN/mm					
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [200 °C]	temperature 3 [300 °C]	
Stress level 1 [30 MPa]	0,96	0,89	0,88	0,73	
PQR at $Q_{Smax}$	0,98 at 220 MPa	0,85 at 120 MPa	0,85 at 80 MPa	0,81 at 60 MPa	

Maximal applicable gasket stress $Q_{Smax}$				
$Q_{Smax}$ [MPa] ambient temperature	$Q_{Smax}$ [MPa] – temperature 1 [100 °C]	$Q_{Smax}$ [MPa] – temperature 2 [200 °C]	$Q_{Smax}$ [MPa] – temperature 3 [300 °C]	$Q_{Smax}$ [MPa] – temperature 4
220	120	80	60	

Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]										
Gasket stress [MPa]	ambient temperature		temperature 1 [100 °C]		temperature 2 [200 °C]		temperature 3 [300 °C]		$E_G$ [MPa]	$e_G$ [mm]
	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]		
0										
1		1,95		1,89		1,90		1,90		
20	1737	1,89	1280	1,82	1437	1,81	5365	1,79		
30	1894	1,87	1521	1,80	2227	1,80	3406	1,77		
40	2403	1,85	2290	1,78	3038	1,78	3742	1,76		
50	2933	1,84	2401	1,77	3767	1,77	3948	1,75		
60	3550	1,83	2913	1,75	3500	1,76	4201	1,74		
80	3710	1,80	3710	1,72	3435	1,70				
100	5163	1,78	7304	1,69						
120	7702	1,77	4146	1,63						
140	6963	1,75								
160	6582	1,73								
180	5720	1,71								
200	5966	1,69								
220	10305	1,67								
240										



**Bitte beachten:**

Mit diesem Datenblatt verlieren alle früheren Ausgaben ihre Gültigkeit. Die jeweils aktuelle Version erhalten Sie produktbezogen unter [www.frenzelit.com](http://www.frenzelit.com) oder direkt von unserer Anwendungstechnik. Die Ermittlung der Kennwerte erfolgte an Standardmaterial unter Laborbedingungen. Aufgrund der Vielzahl möglicher Einbau- und Betriebsbedingungen kann daraus keine Gewährleistung für das Verhalten einer Dichtverbindung abgeleitet werden. Technische Änderungen und Druckfehler vorbehalten.

**Please note:**

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Note: the content of darkened cells was not determined respectively is unnecessary	Rev - No: 0	Creation date of this sheet: 02/2012
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