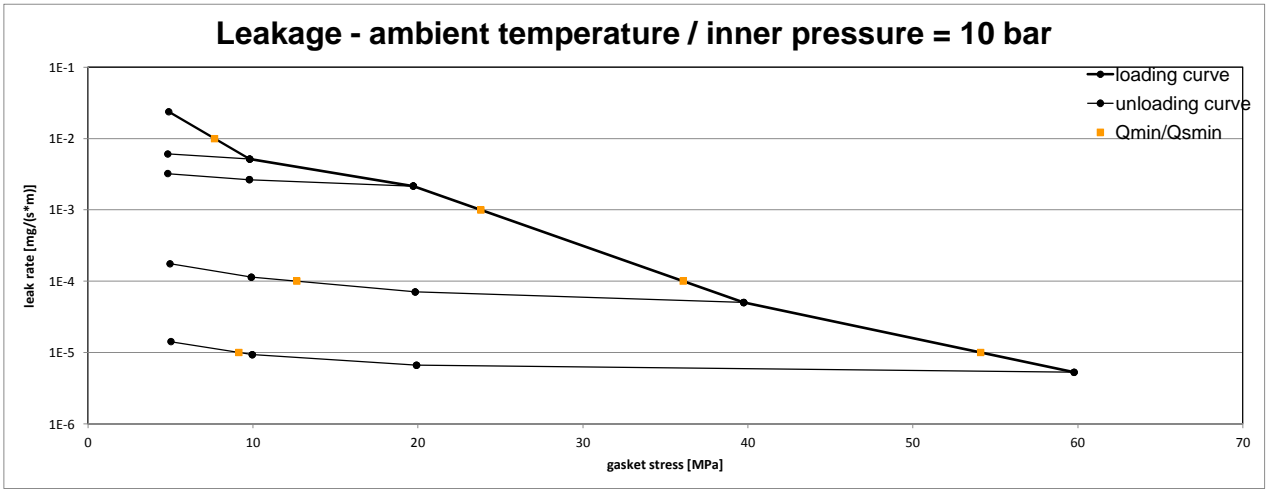
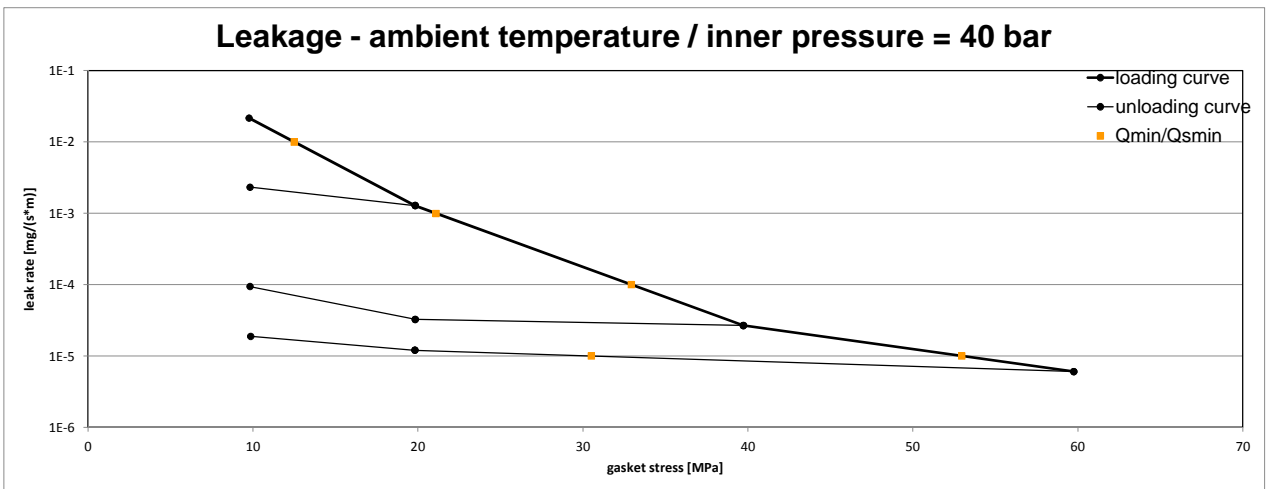


Company Address	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
Gasket Type	KLINGER® top-chem-2006
Sealing element dimensions [mm]	92 x 49 x 2

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								
10 <sup>0</sup>	5	5	5	5	5								
10 <sup>-1</sup>	5	5	5	5	5								
10 <sup>-2</sup>	8	5	5	5	5								
10 <sup>-3</sup>	24			5	5								
10 <sup>-4</sup>	36			13	5								
10 <sup>-5</sup>	54				9								
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 = 40 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									
10 <sup>0</sup>	10	10	10	10									
10 <sup>-1</sup>	10	10	10	10									
10 <sup>-2</sup>	13	10	10	10									
10 <sup>-3</sup>	21		10	10									
10 <sup>-4</sup>	33		10	10									
10 <sup>-5</sup>	53			31									
10 <sup>-6</sup>													
10 <sup>-7</sup>													
10 <sup>-8</sup>													



Note: the content of darkened cells was not determined respectively is unnecessary      Rev - No: 1      Creation date of this sheet: 03.07.2012



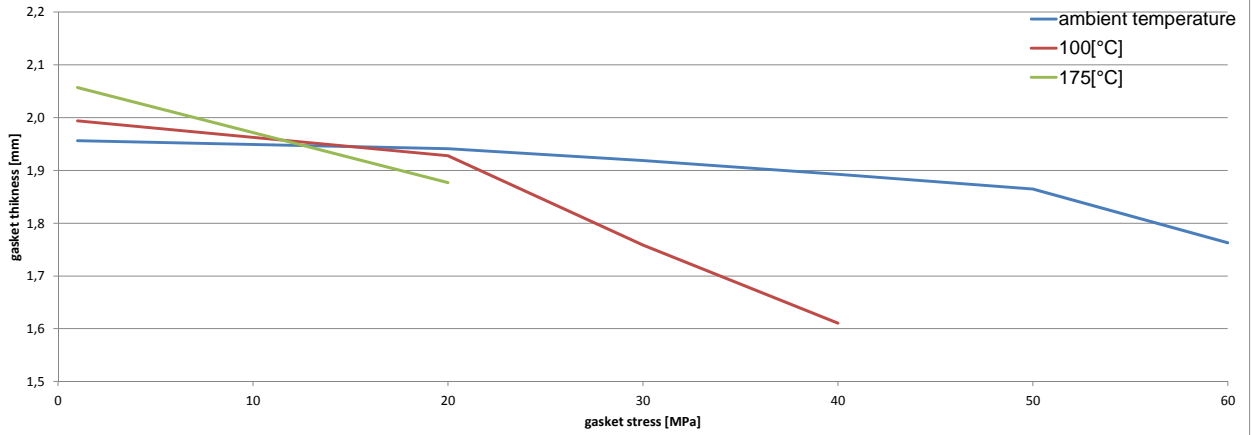
<b>Company Address</b>	KLINGER® GmbH & Co. KG, Richard-Klinger-Straße 37, 65510 Idstein, Germany
<b>Gasket Type</b>	KLINGER® top-chem-2006
<b>Sealing element dimensions [mm]</b>	92 x 49 x 2

Relaxation ratio $P_{QR}$ for stiffness $C = 500 \text{ kN/mm}$				
Gasket stress [MPa]	ambient temperature	temperature 1 [100 °C]	temperature 2 [175 °C]	
Stress level 1 [10 MPa]	0,92	0,92	0,95	
Stress level 2 [20 MPa]	0,95	0,88		
PQR at $Q_{Smax}$	0,82 at 60 MPa	0,72 at 40 MPa	0,80 at 20 MPa	

Maximal applicable gasket stress $Q_{Smax}$			
$Q_{Smax}$ [MPa] ambient temperature	$Q_{Smax}$ [MPa] – temperature 1 [100 °C]	$Q_{Smax}$ [MPa] – temperature 2 [175 °C]	
60	40	20	

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 [175 °C]	
	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]	$E_G$ [MPa]	$e_G$ [mm]
0						
1		1,957		1,994		2,057
20	18062	1,941	2495	1,928	2149	1,877
30	8932	1,919	3394	1,758		
40	29075	1,892	5216	1,610		
50	31538	1,865				
60	14955	1,763				

### Gasket thickness $e_G$



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