

Technical specification

KLINGER^{top}-chem 2003

Description

Suitable for low temperatures and large sealing surfaces. Excellent for all types of aggressive media. FDA approved for food and medicine. Retention spring back so that no re-tightening is needed. Does not age. Very good adaptation to poor flange faces. High gas density at low torque.

Properties	Unit	Value	Test method
Density	g/cm ³	1.7	
Maximal operating pressure at 85°C	bar	-	VGB 62
Temperature – service (continuous)	°C	260	
Temperature – short time	°C	-	
Compressibility	%	18	ASTM F 36 A
Recovery	%	min 40	ASTM F 36 A
Stress resistance			
16h/150°C	30 MPa	13	DIN 25913
16h/300°C	50 MPa	-	DIN 52913
16h/300°C	40 MPa	-	BS 7531
Tightness	ml/min	0.1	DIN 3535/6
Tightness	mg/s m	0.01	DIN 28090-2
Thickness increase after fluid immersion			
H ₂ SO ₄ , 100%: 18h/23 °C	%	-1	ASTM F 146
HNO ₃ , 100%: 18h/23 °C	%	-5	ASTM F 146
NaOH 33%: 72h/110 °C	%	-2	
Klinger cold compression; 25 MPa			
thickness decrease at +23°C	%	9	
thickness decrease at +250°C	%	38	
Soluble chloride content (chloride soluble)	ppm	-	
Cold compression	%	-	DIN 28091-2
Cold recovery	%	-	DIN 28091-2
Hot compression	%	-	DIN 28091-2
Hot recovery	%	-	DIN 28091-2
Spring back R	Mm	-	DIN 28091-2
Thermal conductivity	W/mK	-	

This specification is given by our best knowledge and might be submitted to changes.