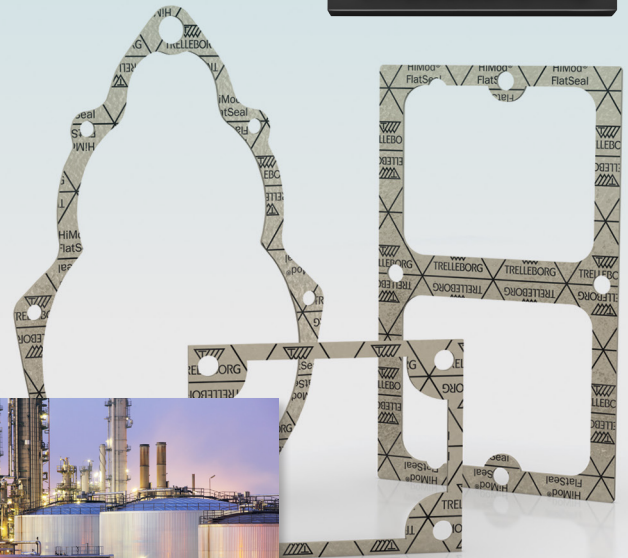




HiMod® FlatSeal™ 66

OPTIMIZED PHLOGOPITE MICA FOR OUTSTANDING RESISTANCE



A range of gaskets to meet market needs

The HiMod® FlatSeal™ range consists of products that will satisfy the requirements of the majority of gasket applications within aerospace, chemical, processing, food & beverage and pharmaceutical industries. It offers compliance with virtually all relevant standards, including FDA, USP Class VI and those for blowout and fugitive emissions in oil & gas applications.

HiMod® FlatSeal™ 66 (HMF66)

HMF66 is made from optimized phlogopite mica with an expanded stainless steel metal insert (grade 1.4404), demonstrating and having outstanding temperature resistance, chemical resistance, electrical insulation and processing properties.

Applications

Various applications within the process, energy, glass, furnace manufacturing, automotive, mobility and machine manufacturing industries. A good choice for all types of combustion engine and unit exhausts, turbochargers and compressors.

It can also be used as electrical insulation, a temperature resistant compensation element or a soft layer.

Features and benefits

- Stability at extremely high temperatures (up to + 1, 000 °C)
- Due to the expanded metal insert, low long-term leakage, even at high temperatures
- Reliable handling
- Can be machined using standard manufacturing methods, including plotter, water jet, punch, shears and cutter
- Can be effectively combined with an inner eyelet

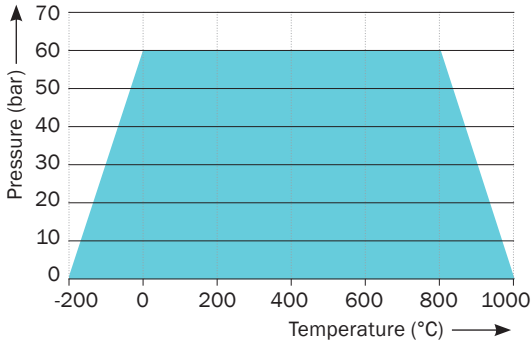
Good for people and the environment

HiMod® FlatSeal™ 66 is manufactured in facilities that comply with ISO/TS 16949 and ISO 14001. This means complete transparency in all areas of production and a high degree of security for our customers.

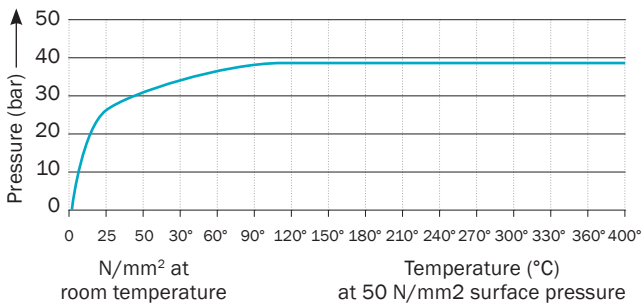
TECHNICAL INFORMATION ABOUT HIMOD® FLATSEAL™ 66

Recommendations for application

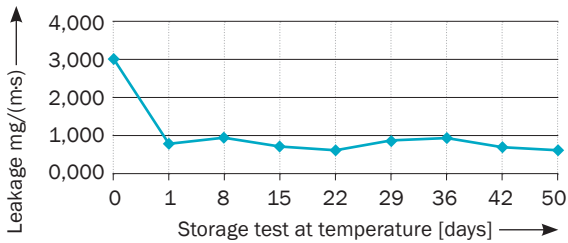
The temperature and pressure recommendations in the graphs apply to gaskets with a thickness of 2.0 mm and smooth flanges. Higher stresses are possible when thinner gaskets are used.



Compression set - Temperature Test 2.0 mm



Long-term leakage at + 500 °C 5 bar N2 acc. to DIN 28 090-1



Material data

General data	
Elements	Phlogopite mica with an expanded stainless steel metal insert (grade 1.4404)
Color	Green-Gold (typical Mica color)
Thickness	1, 1.5, 2, 3 mm; further thicknesses are available on request
Sheet Tolerances	According to DIN 28 091-1
Dimension	1200 mm (length) x 1000 mm (width); further dimensions are available on request

Material Properties	Standard	Unit	Value**
Density	DIN 28 090-2	[g/cm ³]	1.8
Tensile strength	DIN 52 910		
Longitudinal		[N/mm ²]	30
Transverse		[N/mm ²]	25
Residual stress + 300 °C	DIN 52 913	[N/mm ²]	32
Compressibility	ASTM F 36 J	[%]	20
Recovery	ASTM F 36 J	[%]	40
Cold compressibility	DIN 28 090-2	[%]	15
ϵ_{KSW}			
Cold recovery ϵ_{KRW}	DIN 28 090-2	[%]	5
Hot creep $\epsilon_{WSW/150}$	DIN 28 090-2	[%]	10
Hot recovery $\epsilon_{WRW/150}$	DIN 28 090-2	[%]	2
Thermal conductivity (perpendicular)		W/(mK)	0.3
Specific leakage rate	DIN 28 090-2		
+ 20 °C / 5 bar		mg/(ms)	3
500 °C / 5 bar		mg/(ms)	0.8

* Approvals applied for. ** Mode (typical value).

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