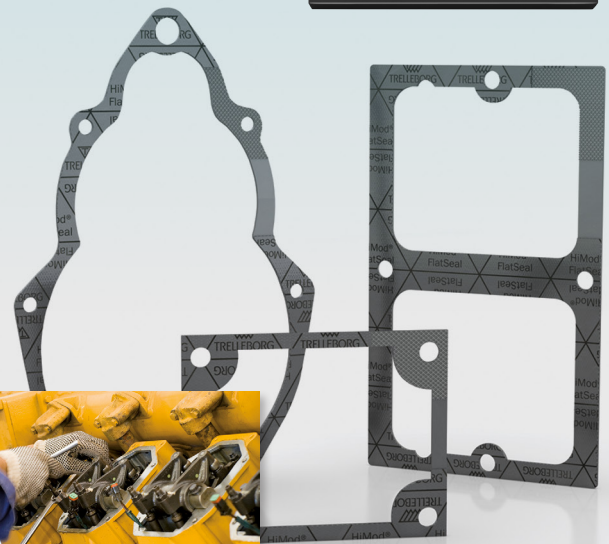




HiMod® FlatSeal™ 34

EASIER HANDLING AND STRONG PERFORMANCE



A range of gaskets to meet market needs

The HiMod® flat gasket range consists of products that will satisfy the requirements of the majority of gasket applications within aerospace, chemical and processing industries. It offers compliance with virtually all relevant standards including FDA and those for blowout and fugitive emissions.

HiMod® FlatSeal™ 34

For universal use in a wide variety of general and chemical processing applications, the gaskets metal insert guarantees easy handling and a strong performance.

Applications

- Aircraft engine and APU Gaskets
- Aerospace anti-ice systems and high temperature applications such as vanes
- Chemical processing
- In high thermal and mechanical loads, as well as when loads frequently change
- Diesel Engines
- Saturated steam, superheated steam, heat carrier oils

Features and benefits

- Metal insert guarantees easy handling before installation and a strong performance in the flange
- Operating temperatures from -240 °C to +550 °C
- Withstands extreme pressure up to 150 bar
- Suitable for use in extreme charging loads and cycles
- Compatible with practically all organic and inorganic acids, alkalis, oils and solvents
- Resistant to corrosion
- Blowout resistant

Good for people and the environment

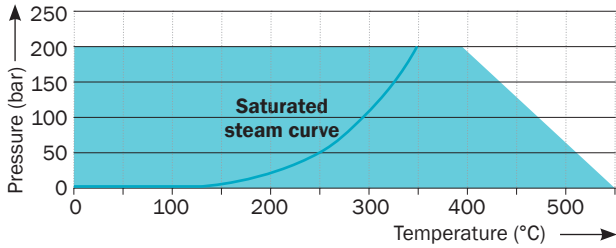
HiMod® FlatSeal™ 34 is manufactured in facilities that comply with ISO/TS 16949 and ISO 14001. This means complete transparency in all areas of production and a high degree of security for our customers.

TECHNICAL INFORMATION ABOUT HIMOD® FLATSEAL™ 34

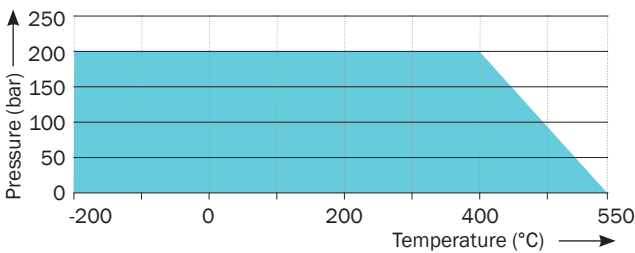
Recommendations for use

according to pressure and temperature

Water/steam



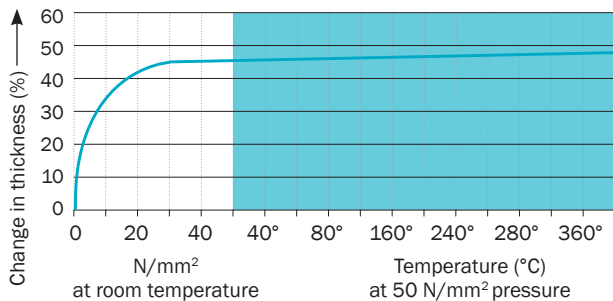
Other Media



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.

Example for the most commonly other media used. Exact data for specific, individual cases are available on demand.

Deformation under temperature 2.0 mm



Material data

General data	
Elements	Gasket material made of expanded graphite with a purity of 99 percent minimum reinforced with a stainless steel wire mesh insert (material no. 1.4301/AISI 304.)
Color	Grey with black label
Thickness in mm	1.0/ 1.5/ 2.0/ 3.0 Further thicknesses are available on request
Thickness tolerance	According to DIN28091-1

Physical properties Gasket thickness 2.0 mm	Standard	Unity	Value*
Identification	DIN 28 091-4		GR-10-I-1M-Cr
Density	DIN 28 090-2	[g/cm ³]	1.20
Tensile strength longitudinal transverse	DIN 52 910	[N/mm ²] [N/mm ²]	8 7
Residual stress $\sigma_{dE/16}$ 175 °C 300 °C	DIN 52 913	[N/mm ²] [N/mm ²]	46 45
Compressibility	ASTM F 36 J	[%]	40
Recovery	ASTM F 36 J	[%]	10
Cold compressibility ϵ_{KSW}	DIN 28 090-2	[%]	40
Cold recovery ϵ_{KRW}	DIN 28 090-2	[%]	4
Hot creep $\epsilon_{WSW/300}$	DIN 28 090-2	[%]	2.5
Hot recovery $\epsilon_{WRW/300}$	DIN 28 090-2	[%]	3
Recovery R	DIN 28 090-2	[mm]	0.060
Specific leakage rate	DIN 3535-6	[mg/(s·m)]	≤ 0.250
Specific leakage rate $\lambda_{2.0}$	DIN 28 090-2	[mg/(s·m)]	≤ 0.250
Fluid resistance	ASTM F146		
ASTM IRM 903 Weight change Thickness increase	5h/150 °C	[%] [%]	33 5
ASTM Fuel B Weight change Thickness increase	5h/23 °C	[%] [%]	33 5
Chloride content	FZT PV-001-1330	[ppm]	≤ 50

* Mode (typical value)

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