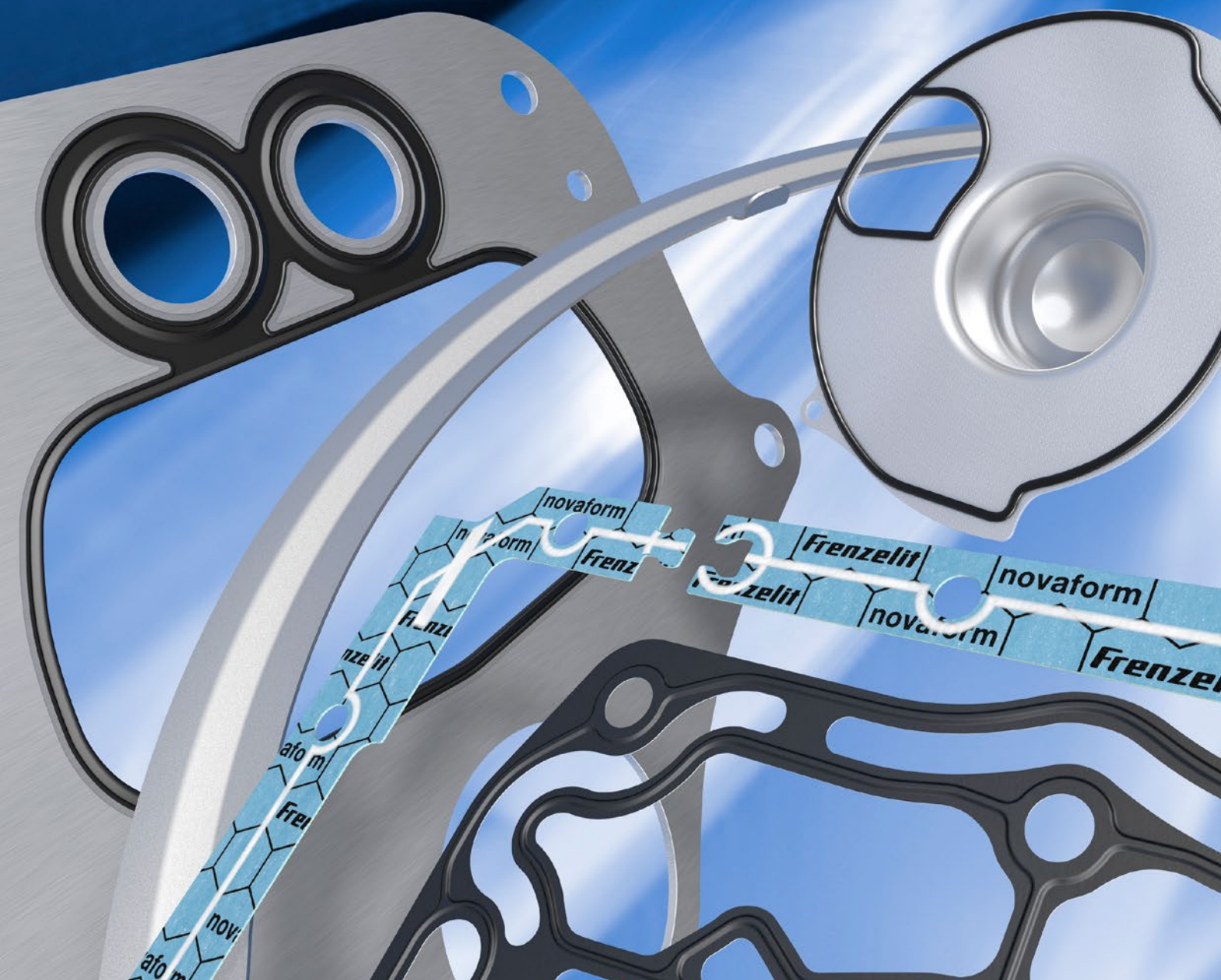


novaform® HPG

High-performance gaskets  
for automotive and auxiliary devices



GASKETS

TECHNICAL TEXTILES

EXPANSION JOINTS

INSULATION

NEW MATERIALS

 **Frenzelit**  
creating hightech solutions



# novaform® HPG – high-performance gaskets

## Application areas

novaform® HPG is the ideal choice for a wide range of different applications. novaform® HPG stands for innovative high-performance gaskets – from standard DIN flanges to special gaskets with additional functions. novaform® HPG demonstrates its potential not only in many different automotive applications but also in industrial and for auxiliary devices.

## Substrate materials and coatings

The basis for unique requirements is our variety of substrates:

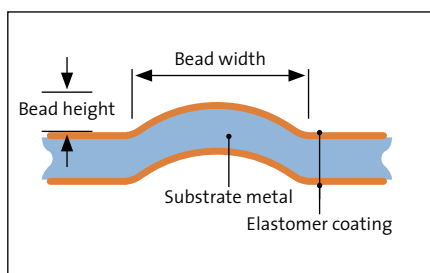
- Fibre-reinforced composite materials
- Construction steel
- Aluminium
- Stainless steel
- High-temperature alloys

Innovative coatings guarantee ideal combinations for your application, such as:

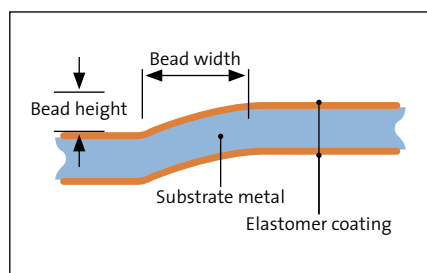
- NBR
- FKM
- Silicone
- High-temperature coating
- Anti-friction coating

## Sealing principles

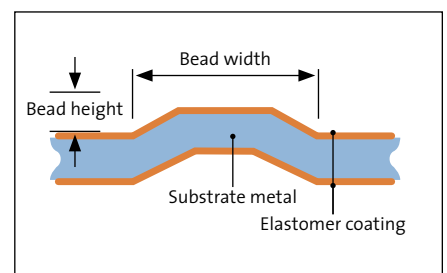
The individually designed bead geometry of the novaform® HPG is the main principle of the macrosealing.



Full bead



Half bead



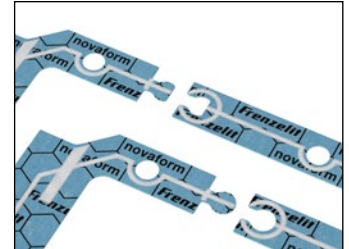
Trapezoidal bead



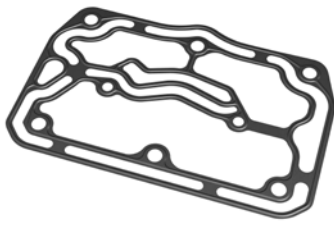
# Individual variety – optimum potential

## Coating processes

The high-tech layers used for macrosealing purposes are applied by solid or partial coating processes.



Multi-piece flexible gasket with puzzle joins and screen printing



Metal bead gasket



Screen-printed gasket



Dispenser bead



Moulded sealing lip

## Special solutions

Innovative products require innovative solutions. Thanks to the integration of additional functions, novaform® HPG is an excellent way to increase your added value.



Filter element for cooling agent decolourisation



Deep draw gasket with attachment clips and an integrated heat shielding function



Sealing end shield with a bearing function and thermal + acoustic insulation



EGR gasket with attachment clips and screen



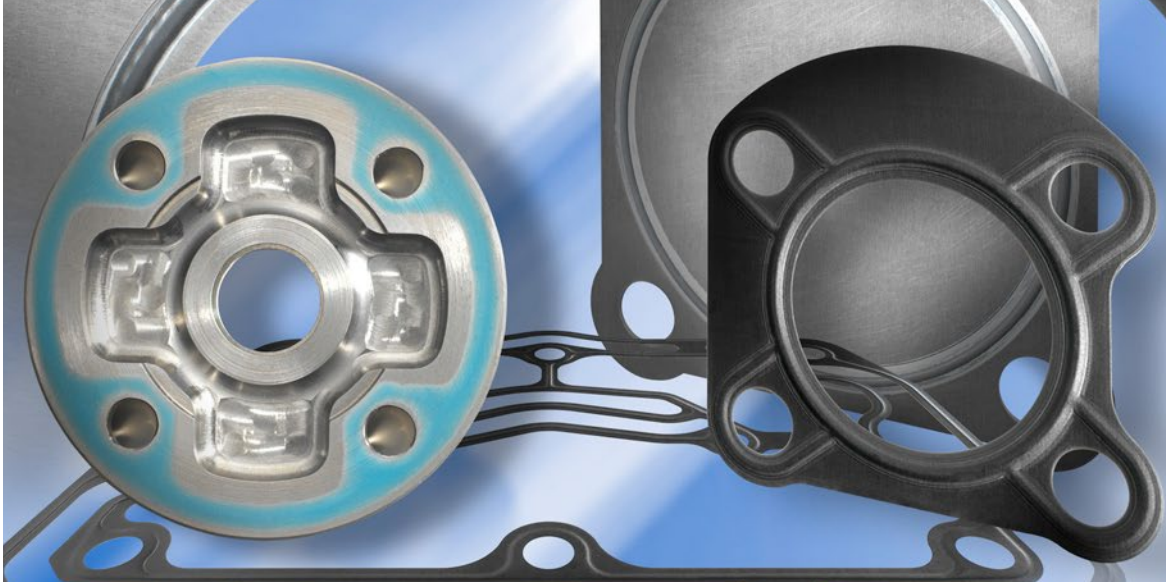
Slanted half-bead gasket for hose clamp connection



Subassembly challenges are most welcome.  
Just contact us!

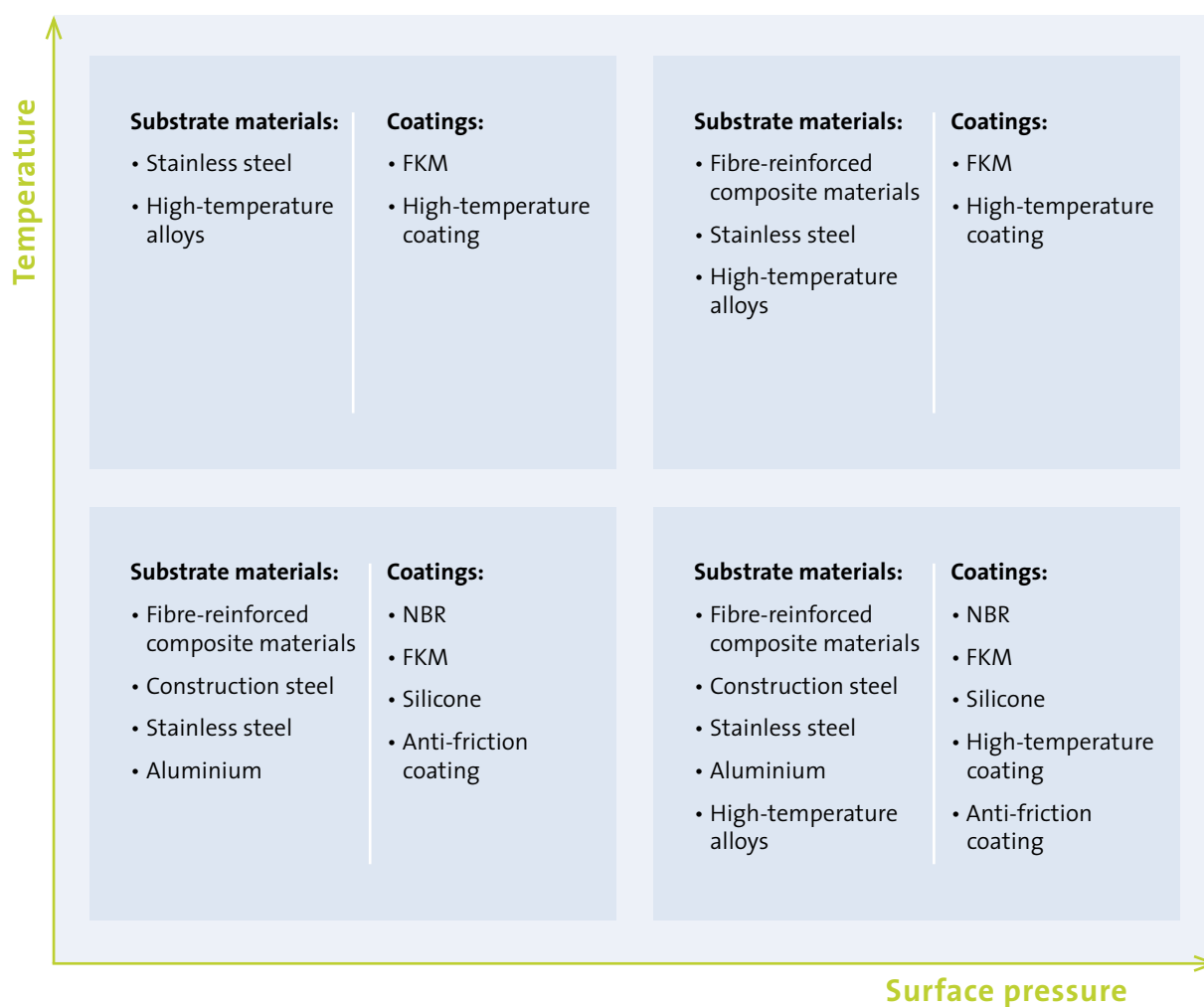
[automotive@frenzelit.de](mailto:automotive@frenzelit.de)





## Design matrix

The material and coating is determined by temperature and pressure.



# Gasket design questionnaire

Please complete and return by fax (+49 9273 72-220) or e-mail (automotive@frenzelit.de)

Customer:	_____	Date	_____
Contact	_____	Phone	_____
Technical: Mr/Ms	_____	_____	_____
Commercial: Mr/Ms	_____	_____	_____

## Project/heading

Status:  Feasibility study  Project  New development  Optimisation  Series

## Operating conditions

Flange temperatures in the sealing area [°C]	T <sub>min</sub> _____	T <sub>permanent operation</sub> _____	T <sub>max</sub> _____
Pressure levels [bar]	P <sub>min</sub> _____	P <sub>permanent operation</sub> _____	P <sub>max</sub> _____
Pulsating	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Relative pressure	<input type="checkbox"/> Absolute pressure

## Sealed media

\_\_\_\_\_

## Type of sealing

Static  Dynamic  Contact arrangement  Floating arrangement  
 Others: \_\_\_\_\_

## Bolts

Number: \_\_\_\_\_ Bolt dimensions: M \_\_\_\_\_ Quality \_\_\_\_\_ Tightening torque \_\_\_\_\_ Nm

## Flanges

Material	Thickness [mm]	Roughness [Rz]	Flatness [mm]
_____	_____	_____	_____

## Leakage criteria/sealing location

\_\_\_\_\_

## Loss prevention device/positioning

\_\_\_\_\_

## Regulations/specifications

\_\_\_\_\_

## Planned dates

Quotation	Concept	Prototypes	Initial samples	SOP
_____	_____	_____	_____	_____

## Planned numbers

Prototypes	Initial series	Series (1 <sup>st</sup> year)	Series (subsequent years)
_____	_____	_____	_____

## Comments

\_\_\_\_\_

If you have any questions about technical applications, we will be delighted to help you:

[automotive@frenzelit.de](mailto:automotive@frenzelit.de)

# Good for people and the environment.

From research and development to manufacturing at our factory and use of the product by the customer: quality assurance and a responsible attitude to resources and the environment are central features of all we do – throughout the life cycle of every single product.

The Frenzelit Automotive Gaskets Division has obtained certification of its compliance with the requirements not only of ISO 9001 and ISO/TS 16949 but also of ISO 14001. This means complete transparency in all areas and therefore guarantees maximum safety and security – for our employees, for the environment and for our customers.

## Quality management

ISO 9001

ISO/TS 16949

## Environmental management

ISO 14001



## Further automotive products from Frenzelit:



**novapress®**  
Fibre gaskets



**novaplan®**  
Facing materials for  
cylinder head gaskets,  
heat shield paper



**isoTHERM® SG**  
Moulded 3D parts  
for high-temperature  
insulation

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 **Frenzelit**  
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