

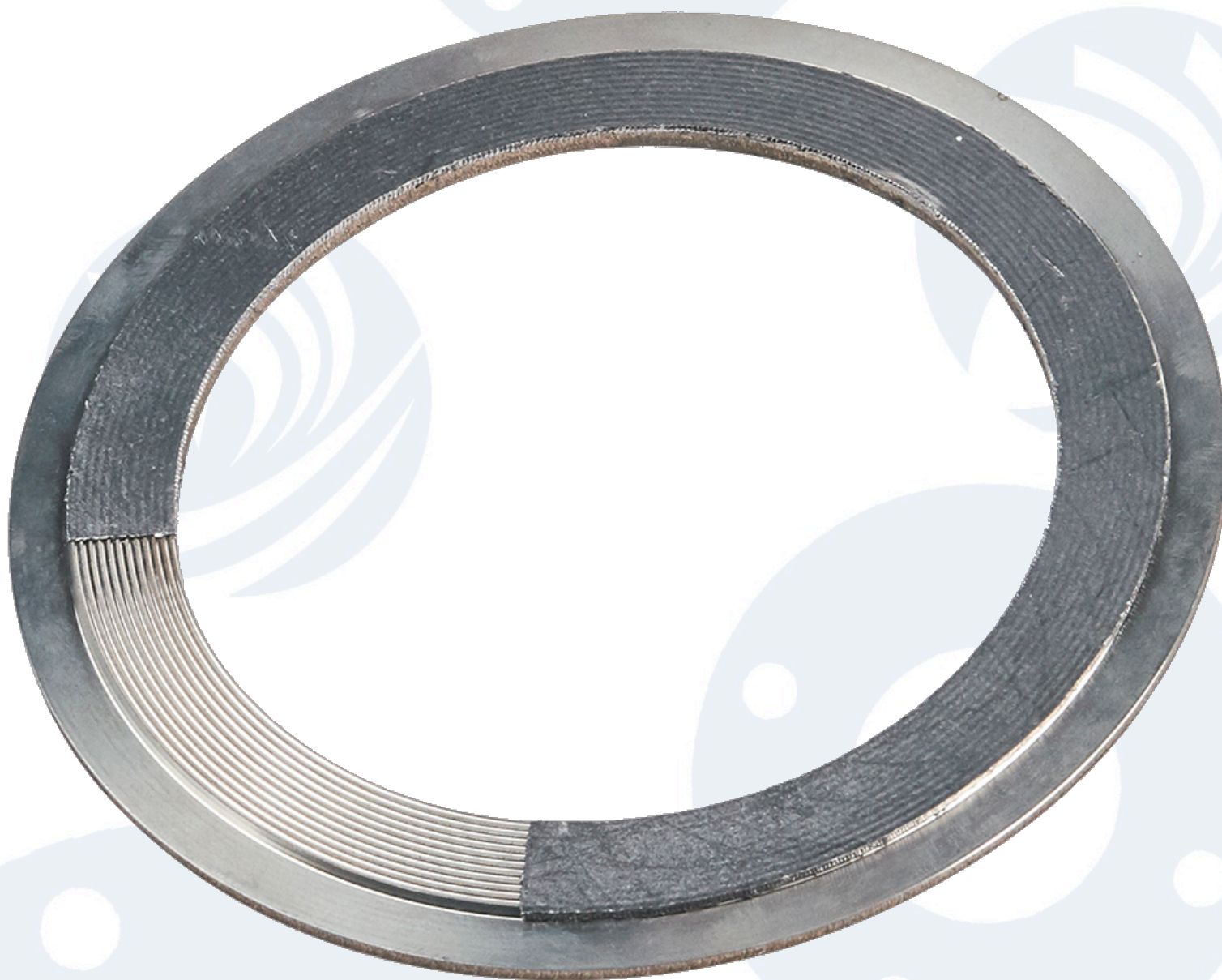


**SHANGHAI OKSEALING  
MATERIAL CO., LTD**

Rev.2209-XY-K

# **KAMMPROFILE GASKET**

**A gasket with simple production, excellent sealing performance and low bolt stress requirements.**



# (Semi)Metallic Gasket

## Kammprofile Gasket

Rev.2209-XY-K

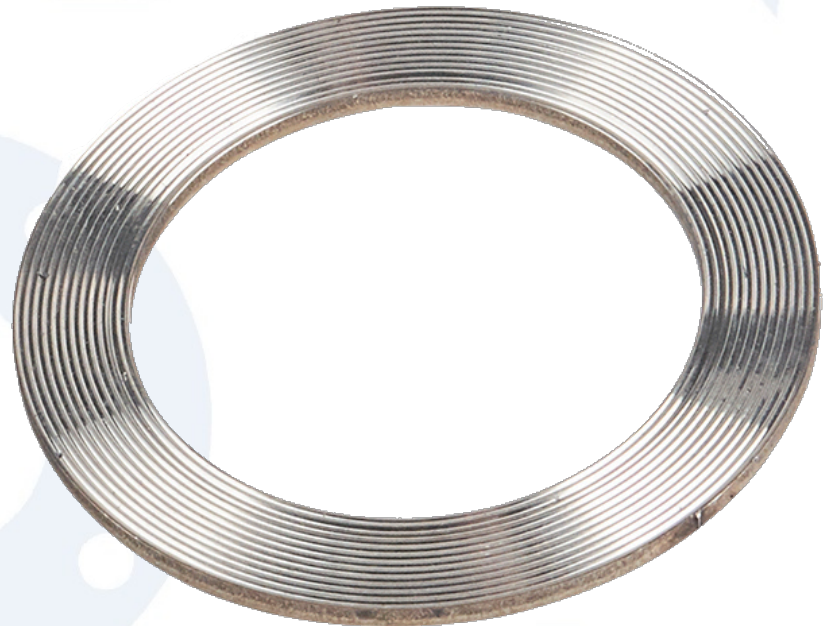
# KAMMPROFILE GASKET *Description*

Since Kammprofile Gasket was developed in Germany over 50 years ago, it has been providing reliable seal in a wide range of applications globally.

### Advantages

- Handles pressures from vacuum to Class 2500Lbs
- Compressibility, low stress
- Seals less-than-perfect flanges

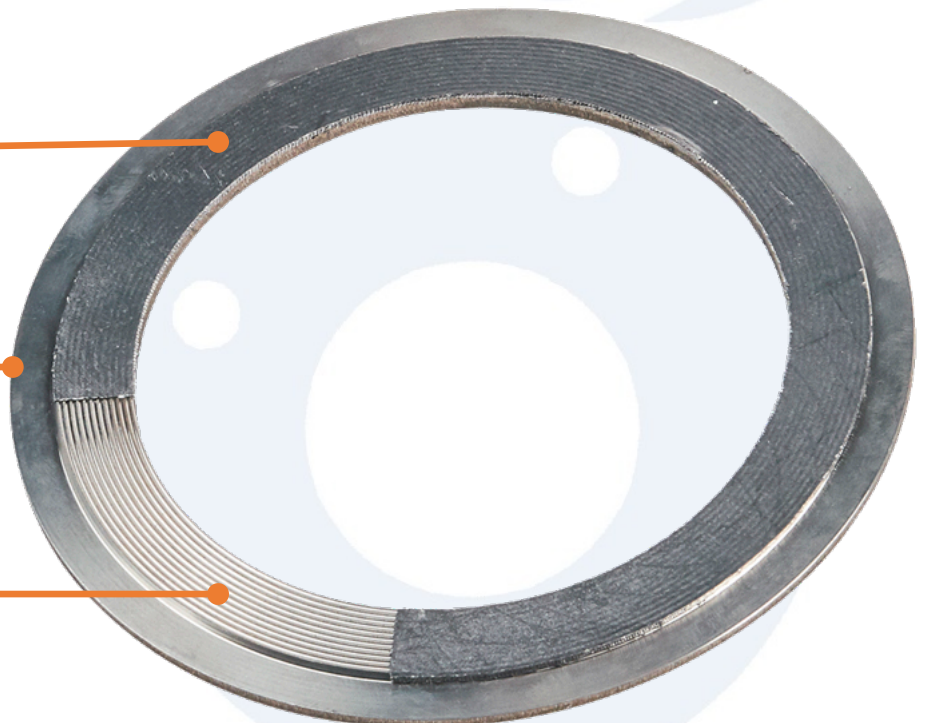
Kammprofile Gasket is comprised of a serrated solid metal core, and a soft sealing material bonded to each face. Metal core provides rigidity and blowout resistance. Sealing material provides low stress gasketing seating.



Soft sealing material

Optional outer ring can  
be integral or floating

Serrated solid metal  
core



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# KAMMPROFILE

## GASKET *Materials*

### CORE MATERIAL

Carbon Steel	SS316Ti	Inconel 825
SS304	SS321	Hastelloy C276
SS304L	Inconel 600	Monel 400
SS316L	Inconel 625	S31803
SS410	Inconel 800	Titanium Gr2

SEALING MATERIAL	MAX. TEMPERATURE	SEATING STRESS AT ROOM TEMPERATURE	
		MIN.	MAX.
C.N.A.F	250°C	17Mpa	270Mpa
Graphite	450°C	17Mpa	270Mpa
PTFE	260°C	17Mpa	270Mpa
Mica	1000°C	17Mpa	270Mpa

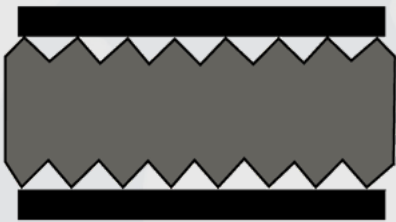
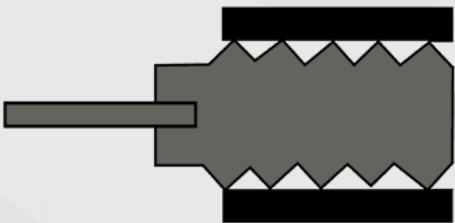
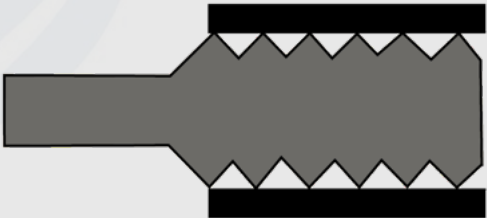
- Notes**
- Selected materials should be compatible with operating temperature and chemicals.
  - In addition to the materials listed in the table above, other special materials are also available, please contact our technical staff.

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# KAMMPROFILE GASKET *Selections*

<div>SEALING ELEMENT TYPE</div> <div>XY-K-K</div>	 A cross-sectional diagram of the XY-K-K gasket. It shows a central rectangular block with a series of sharp, alternating peaks and valleys (a sawtooth pattern) along its top and bottom edges. This block is sandwiched between two flat, horizontal black lines representing the flange faces.	<p>XY-K-K is used in confined locations like male and female, tongue and groove flanges faces.</p>
<div>FLOATING OUTER RING TYPE</div> <div>XY-K-H</div>	 A cross-sectional diagram of the XY-K-H gasket. It features a central sawtooth-patterned block similar to the XY-K-K. On the left side of this block, a horizontal rod or pin passes through a hole, extending to the left. This rod is part of a floating outer ring mechanism.	<p>XY-K-H is added a floating outer ring to XY-K-K. The floating outer ring allows for expansion and contraction during thermal cycling.</p>
<div>INTEGRAL OUTER RING TYPE</div> <div>XY-K-G</div>	 A cross-sectional diagram of the XY-K-G gasket. It shows a sawtooth-patterned block with a horizontal rod passing through it from the left. The rod is integrated into the structure of the gasket, forming an integral outer ring.	<p>XY-K-G utilizes an integral outer ring for correct position in flange. It is recommended for use in raised face and flat face flange.</p>

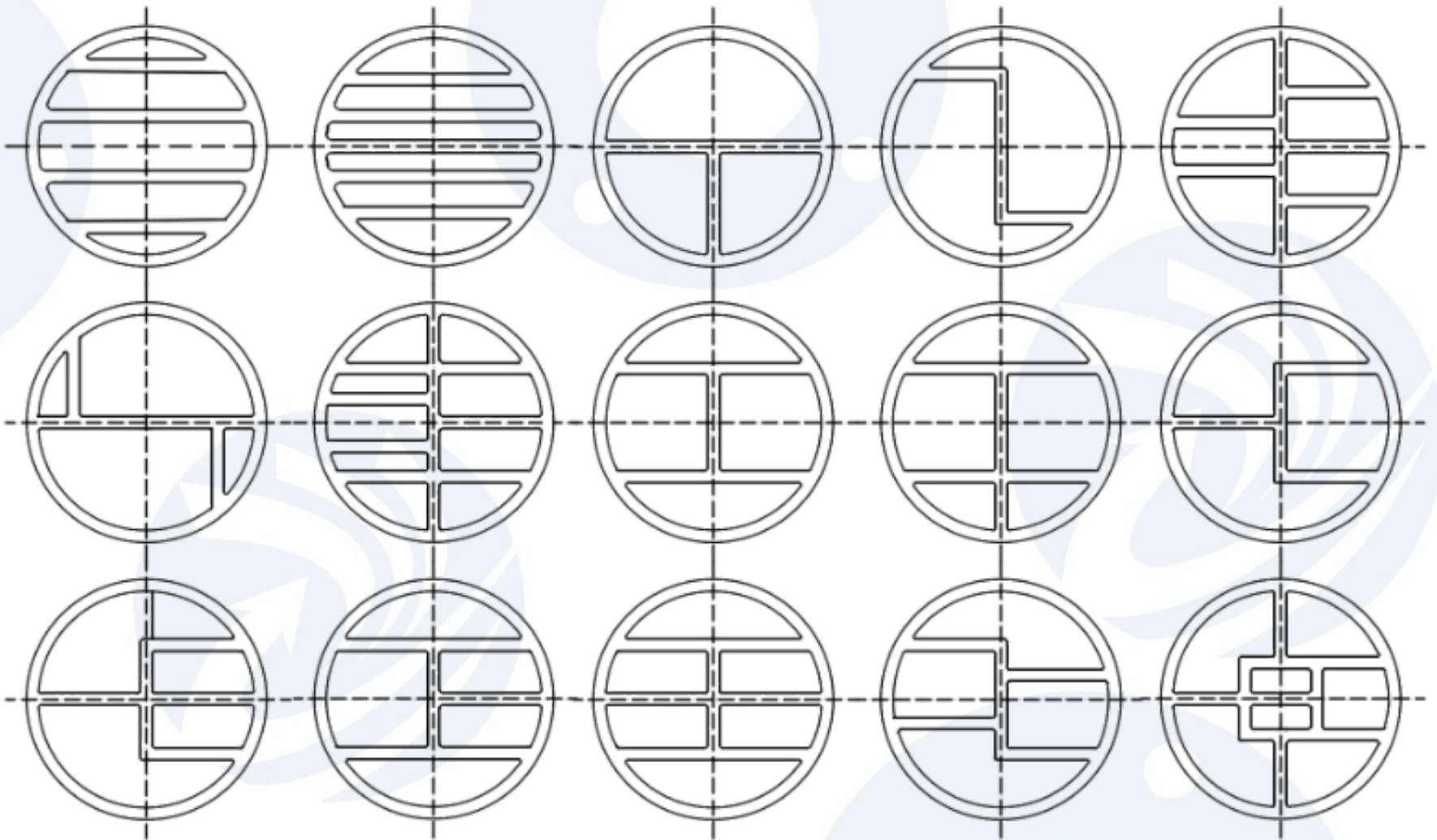
# (Semi)Metallic Gasket

## Kammprofile Gasket

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# KAMMPROFILE GASKET *Shapes*

**According to the different sealing surfaces of heat exchangers, we can provide customers with various rib-type heat exchanger gaskets.**



### Note

Production is not limited to the above rib type. Other rib type can be produced according to drawings.

# (Semi)Metallic Gasket

## Kammprofile Gasket

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# KAMMPROFILE GASKET *Availability*

### Standard Thickness

Standard core thickness is 3.0mm, for special applications we recommend increasing the thickness to 4mm and above.

Standard sealing material thickness is 0.5mm or 0.75mm.

### Gasket “M” & “Y”

Stainless steel core with flexible graphite facing:

M=4    Y=1000psi

STANDARD	
HG20611	HG20632
ASME B16.20	DIN2691
EN1514-2	BS10
JIS B2404	

### About Standard

In the table on the left are the common Kammprovile Gasket standards. In addition, non-standard gaskets can also be produced according to drawings and sizes.

### Stocks



# (Semi)Metallic Gasket

## Kammprofile Gasket

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# KAMMPROFILE GASKET *Installation*

In order to make the gasket have better sealing performance and longer service life, it is not only necessary to correctly select the type and material of the gasket, but also to install and maintain the gasket correctly.



Below guidelines are designed to assist the end user in install a gasket.

Gasket	<ul style="list-style-type: none"><li>• Use a new gasket</li><li>• Check the gasket is in good condition and the size is correct for the flange</li><li>• Do not apply any joint compound, grease or lubricant to gaskets and flanges</li></ul>
Flange	<ul style="list-style-type: none"><li>• Remove the old gasket and check that the flange faces are clean and free from indentations and scoring</li><li>• For Kammprofile Gasket, a surface finish between 3.2µm to 6.4µm is recommended</li><li>• Check the flange faces are parallel or the flanges allows to be pulled parallel and concentric without excessive bolt loads</li></ul>
Bolting	<ul style="list-style-type: none"><li>• Clean every bolts and nuts. Apply bolt lubrication to threads an faces.</li><li>• When installing the bolt and nut, make sure the back face of the flange is flat. If necessary, use a file or wire brush to clean the surface</li><li>• If possible use washers to transfer the bolt loads</li></ul>
Installation	<ul style="list-style-type: none"><li>• Ensure that the gasket is installed centrally</li><li>• It is recommended that using torque wrench to tighten bolts</li><li>• Tighten bolts in a star-like crossing pattern。①Tighten nuts by finger ②Tighten to 30% load ③Tighten to 60% load ④Tighten to full load ⑤Make a final tightening sequence</li></ul>