



A.S.GASKETS

(CIXI AIFLON SAMSUNG SEALING MATERIALS CO.,LTD)

KAMMPROFILE GASKETS

Range of Kammprofile gaskets:

6400 Kammprofile gasket basic style

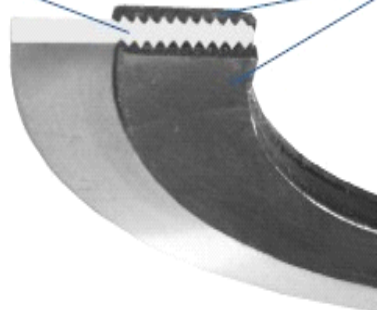
6400-IC Kammprofile gasket with integral centering ring

6400-FC Kammprofile gasket with floating centering ring

More styles, please see “Details of Ranges”

Serrated solid metal core

- Serrations concentrate bolt load on small area for tight seals at lower stress
- Solid metal core resists cold flow, overcompression and blowout
- Rigid core provides exceptional stability, even in large sizes, and facilitates handling and installation

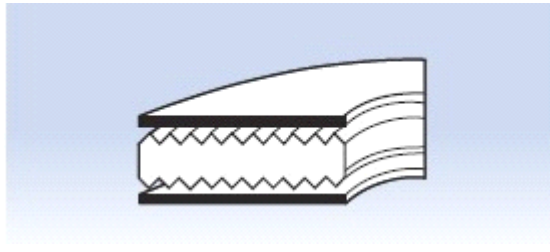


Soft, deformable sealing material

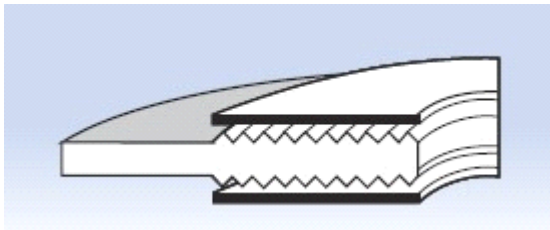
- Under compression, fills seating surface imperfections to form a tight, metal-to-metal connection
- Seals under low stress—ideal for weaker flanges
- Withstands extreme fluctuations in temperatures and pressures

ASGAKSETS Kammprofile gasket (Serrated Metallic Gasket) consist of a metal core, generally stainless steel with concentric grooves on both sides. A sealing layer is usually applied on either side and depending on the service duty the material for this layer can be expanded graphite, PTFE, Asbestos free gasket sheeting materials or some soft metal. It can be used without sealing layer to provide an excellent sealing but there is a risk of flange surface damage especially at high seating pressure.

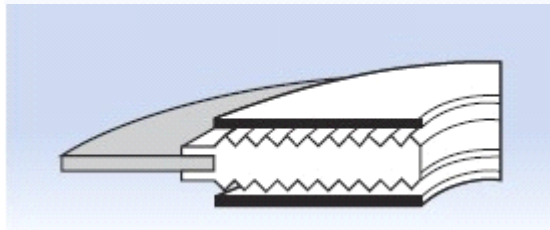
Details of Ranges:



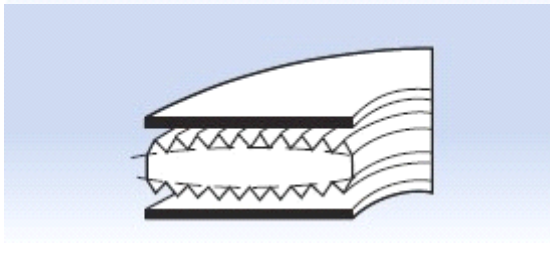
Parallel root core for use in confined location including male And female, tongue and groove and recessed flange Arrangements.



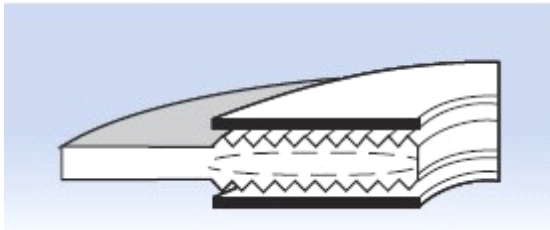
Parallel root core with integral centering ring for correct gasket Positioning within the flange bolt circle. This style is recommended for use on standard raised face and Flat face flanges.



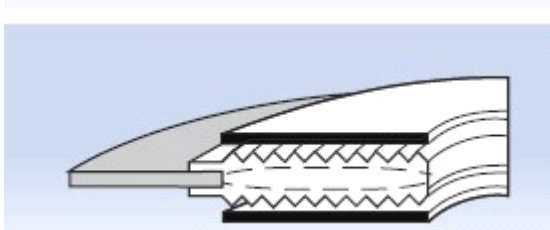
Parallel root core with loose fitting centering ring which reduces The possibility damage to the core as a result of mechanical and Thermal shock.



As above styles, expect with a convex root core. This design ensures the highest contact pressure is in the middle Of the profile and excellent flow of the soft sealing layer Into the flange surface.



The design can be an advantage where flange rotation occurs And only a small seating flange is required for the flange to Become tight.



Gasket of this design are particularly effective in fluctuating Temperature and/or pressure conditions and for higher Temperature in general.

Selection materials:

Materials for metal and corrugated metal gaskets		
Material	ASTM	DIN Material No.
Low CS	Soft Iron	1.1003
Stainless steel	AISI 304	1.4301
Stainless steel	AISI 316	1.4401
Stainless steel	AISI 321	1.4541
Stainless steel	AISI 316Ti	1.4571

Thicknesses:

Core thickness		Compressed thickness	
Inches	mm	Inches	mm
0.093	2.36	0.095~0.105	2.41~2.67
0.125	3.18	0.128~0.138	3.25~3.51
0.187	4.75	0.190~0.200	4.83~5.08
0.250	6.35	0.253~0.263	6.43~6.68
0.375	9.53	0.378~0.388	9.60~9.86
0.500	12.70	0.503~0.513	12.78~13.03

Based on a flexible graphite sealing element.

Applications:

- Accommodates standard ASME flanges as well as weaker and non-circular flanges
- Economical replacement for jacketed heat exchanger gaskets
- Seals less than perfect flanges
- Handles pressures from vacuum to class 2500
- Can seal pressure up to 250 bar
- Can maintain effective sealing performance in varying temperature and pressure conditions.
- Will not damage flange surfaces and can be removed easily.
- The serrated metallic core can be re-used, subject to inspection after cleaning and re-layering.
- Can be made to suit existing arrangements, without modification.

Notation:

- A. Fully resistant (less than 0.009mm penetration per month)
- B. Satisfactory (0.009mm – 0.09mm per month)
- C. Fairly resistant (0.09mm – 0.025mm per month)
- D. Slightly resistant (0.25mm – 0.9mm per month)
- E. Non-resistant (over 0.9mm per month)
- F. Insufficient data available

Due to the complexity of making a recommendation for any given duty, this section on chemical compatibility is intended only as a guide.

The possible effect of elevated temperatures should be considered when determining the compatibility of these products with a chemical. If necessary, please contact our technical services team for assistance.