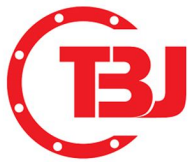
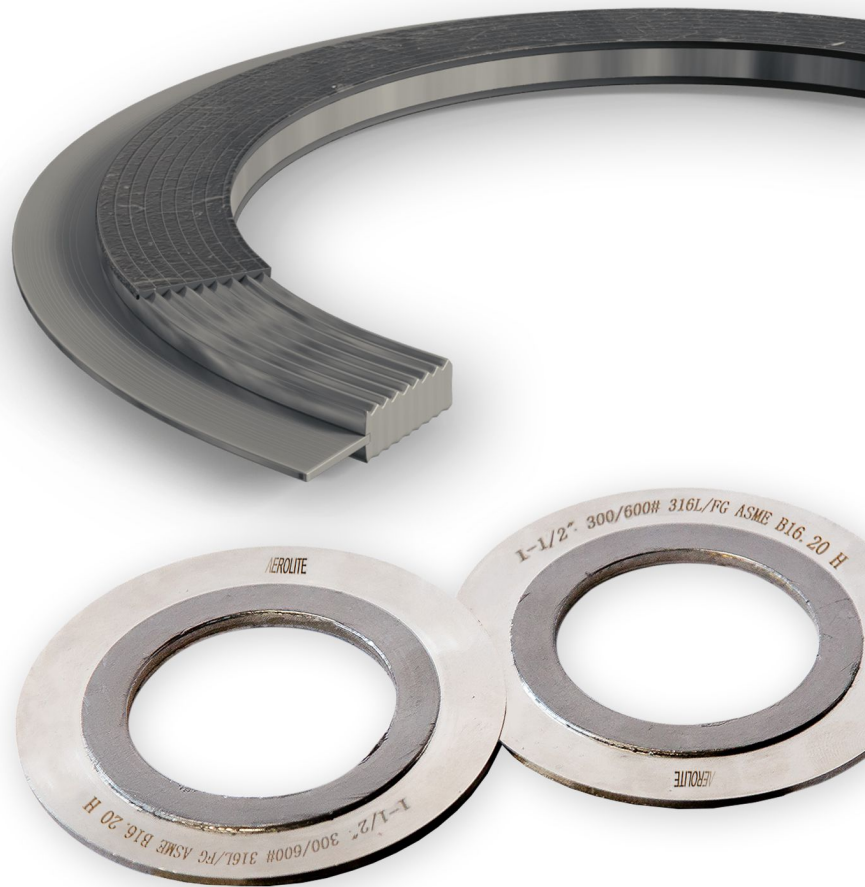


Kammprofile Metal Grooved Gaskets

Certified Fire Safe According to API 6FB!



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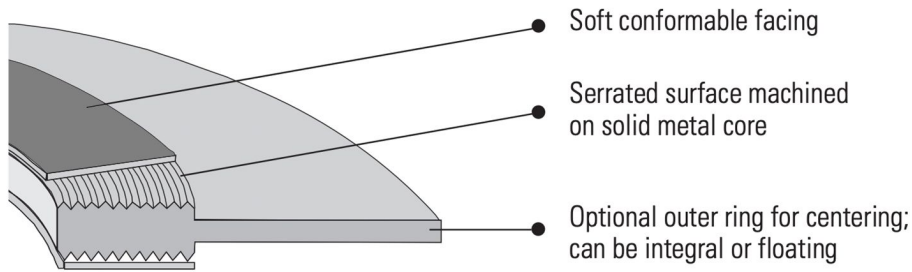


MS ISO/IEC 17021:2011
QS26122016 CB 16



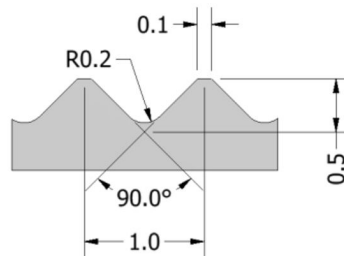
Certificate Number : FM 646287
ISO 9001 : 2015

- Aerolite Kammprofile Gasket is a composite gasket which utilizes a serrated metal core with a soft facing material.
- The metal core is a machined on each contact face with concentric serrations which provide high pressure areas, ensuring that the soft coating flows into any imperfections in the flange
- The soft facing material is engineered to compress in to the serrations on the core and form a thin film across the peaks creating the ideal sealing density in the grooves of the profile.



Core Design

Standard core design is parallel which offers the advantages of even stress distribution across the gasket face. Convex Kammprofile are also available which have a reduced depth of grooves towards the profile centre. This type of profile ensures a high seating stress in the middle of the profile and is effective for low bolt load applications.



Facing Materials

Expanded graphite is the most common facing material used for Kammprofile gaskets. However, other materials can be used, such as PTFE for chemically aggressive duties or mica for high temperature duties.

| Facing Material | Maximum Temperature |
|-----------------|---------------------|
| Graphite | 500 °C |
| PTFE | 260 °C |
| Mica | 900 °C |

● **Core Materials**

Kammprofile gaskets can also be manufactured from a range of core materials according to media compatibility and temperature considerations.

| Core Material | Maximum Temperature | Core Material | Maximum Temperature |
|----------------------|---------------------|---------------------|---------------------|
| Stainless Steel 316L | 800 °C | Duplex UN S31803 | 300 °C |
| Stainless Steel 304 | 650 °C | Stainless Steel 347 | 870 °C |
| Carbon Steel | 500 °C | Stainless Steel 321 | 870 °C |
| Monel 400 | 400 °C | Zirconium | 500 °C |
| Nickel 200 | 315 °C | Super Duplex | 300 °C |
| Inconel 600 | 1000 °C | 254 SMO | 400 °C |
| Inconel 625 | 650 °C | Titanium Gr7 | 350 °C |
| Incoloy 825 | 450 °C | Hastelloy C-22 | 450 °C |
| Hastelloy B-2/B-3 | 450 °C | Hastelloy G-31 | 450 °C |
| Hastelloy C-276 | 450 °C | Alloy 20 | 600 °C |
| Titanium Gr 2 | 350 °C | | |

* These temperatures given above are guidelines only and do not apply in all fluids.

● **Standard Core Materials**

Standard core thickness is 3.0mm; other thicknesses and materials are readily available to suit specific applications.

● **Standard Facing Materials**

Standard facing thickness is 0.5mm or 0.75mm (material dependent); other thicknesses and materials are readily available to suit specific applications.

| Gaskets Style and Material | m | Y, psi |
|----------------------------|-----|--------|
| Kammprofile Gaskets | 3.0 | 1,000 |

● **Ideal for Shell and Tube style Heat Exchanger Flanges**

Although suitable for use on all standard pipeline flanges in a wide range of difficult applications, Kammprofile gasket is proving to be reliable, as a cost effective alternative to metal jacketed gaskets, that are commonly used in heat exchanger applications.

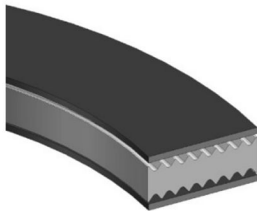
General Properties of Kammprofile Gasket

- A wide range of seating stresses under which the seal is effected and maintained.
- Easy to handle and install.
- Can be used when there is insufficient bolt load to seal conventional gasket materials.
- Suitable for a wide range of operating conditions.
- Excellent tightness even at low bolt loads.
- The soft facing layer prevents damage to the mating flange.
- Metallic core can be refurbished with a new facing layer and reused depending on the condition.

General Applications of Kammprofile Gasket

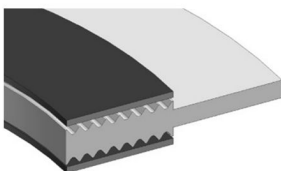
- High and low temperatures
- High Pressures
- Heat Exchanger and vessel applications
- Low bolt loads
- Damaged flanges
- Narrow flange widths

Below are the most common Kammprofile styles:



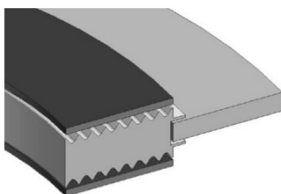
KP1

Used for vessels and heat exchangers.
Lateral profiled joint without guide ring for male and female, tongue and groove and groove and groove flanges.



KP2

Used for Standard pipework.
Lateral profiled joint with guide ring for raised and flat face applications.



KP3

Used for large diameter standard pipework.
Lateral profiled joint with floating guide ring for raised and flat face applications.

KC1,2, & 3

Convex profiled joints in the same style as KP1, KP2 and KP3. The convex profile is designed to assist sealing in low bolt load applications.

All information/applications contained in this publication are to the best of our product knowledge. Since condition of uses is beyond our control, users must satisfy themselves that products are suitable for the intended processes and uses. Failure of select the proper sealing products could result in property damage and/or serious personal injury. We reserve the right to change product information without notice.