

Spiral Wound Gaskets

Certified Fire Safe According to API 6FB!



TBJ-UTEX INDUSTRIES (M) SDN BHD

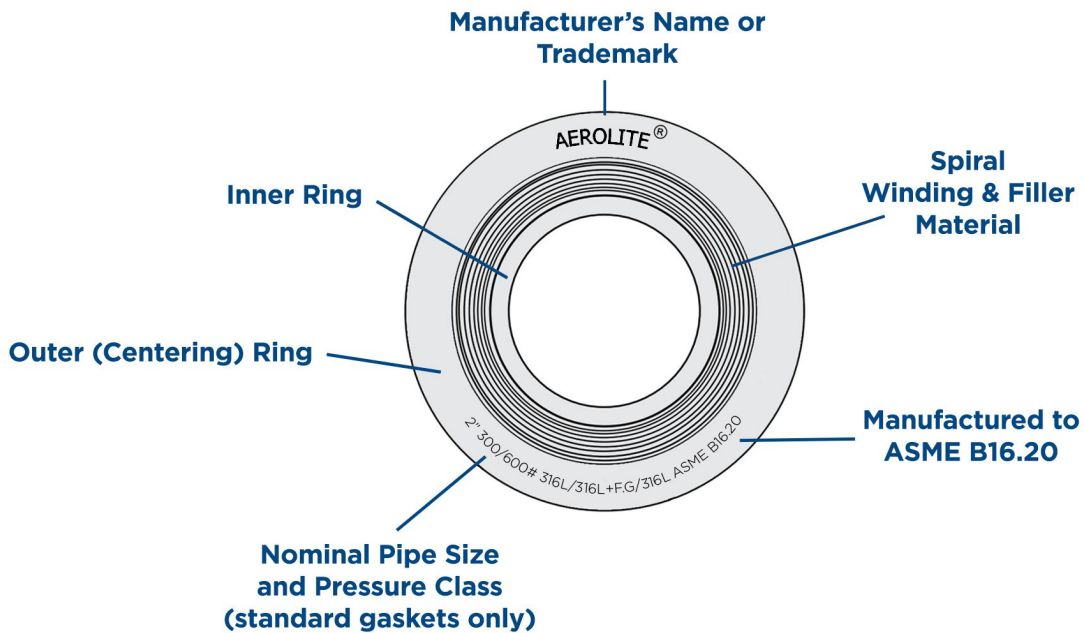
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MS ISO/IEC 17021:2011
QS26122016 CB 16

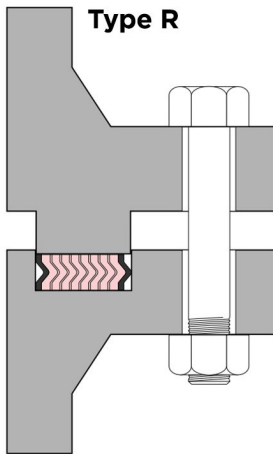


Certificate Number : FM 646287
ISO 9001 : 2015

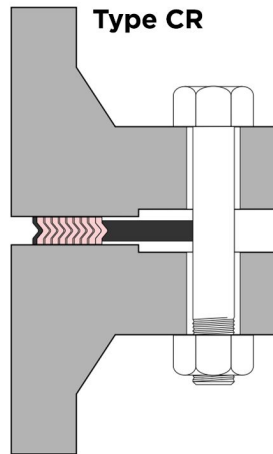


- Spiral Wound Gaskets consist of a combination of profiled V-shaped metal strip and a soft (asbestos-free) filler material. These gaskets are very suitable as standard piping gaskets, particularly in higher pressure systems. The solid construction of the gaskets makes it blowout-proof and, in combination with a graphite filler material, it is suitable for "Fire-Safe" applications.
- Our Spiral Wound Gaskets have the filler protruding above metal windings and guide ring, therefore as the gasket is compressed, the filler is readily compressed thus producing the sealing effect at an earlier stage if compared to the traditional spiral wound gaskets which requires a significant loading stress to compress the gaskets to its optimum operating thickness.
- This low stress gasket has been designed in such a way that compression & sealing requirements are achieved under very low seating stresses.
- It is suitable for use across a wide pressure range and is therefore virtually universally applicable.
- Due to its sturdy design the Spiral Wound Gasket is simple to install without causing damage.
- The outer guide ring serves to locate the spiral element centrally on the flange faces and prevent blow-out.
- By combining different winding materials and metals the gaskets can be tailored to a wide variety of operating conditions.
- Due to its non-adhesive character the gasket is easy to remove after service. The gasket does not cause any damage to the flange faces.

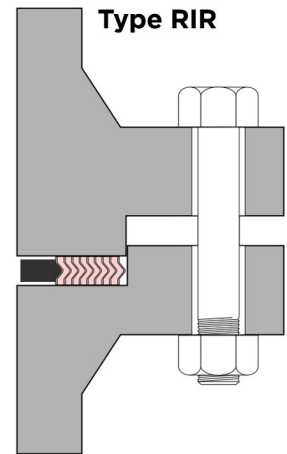
● Below are the most common gaskets types:



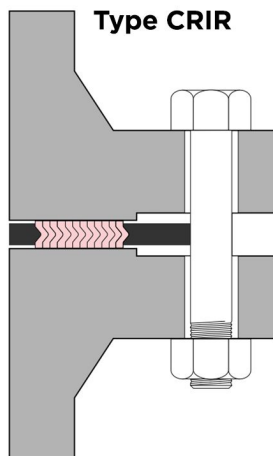
Wide choice of materials for metal strip and filler.
Suitable for high pressures and temperatures.
Recommended for flanges with tongue and groove.



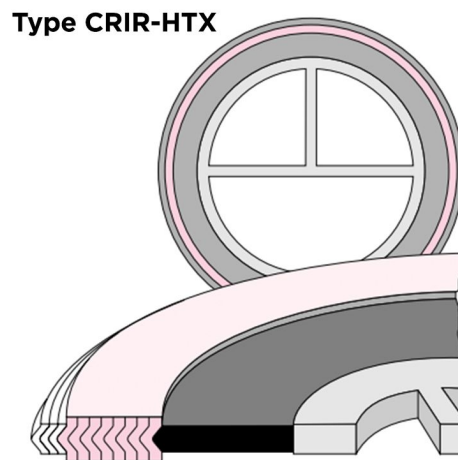
Solid metal outer ring used as a centring device and compression stop.
Used on raised face and flat face flanges.



Solid metal inner ring.
Use with high pressures and temperatures.
Male to female flanges.



Solid metal outer and inner rings.
For use at high pressures and temperatures.
Suitable for raised face or flat face flanges.
Prevents turbulences and protects the flanges from erosion.
Protects the inner windings of the gasket element from high temperatures.



Combined inner and outer rings.
The inner ring could have pass bars or could carry either a metal clad or soft gasket with pass bars.

Gaskets Style and Material	m	Y, psi
Aerolite Spiral Wound Gaskets	3.0	7,500

● Spiral Wound Gaskets can be manufactured in accordance with all relevant gaskets standards to suit the following flange designation:

- ▶ ANSI B16.5 / API 601
- ▶ API 605 (ASME B16.47 Series B)
- ▶ MSS SP 44 (ASME B16.47 Series A)
- ▶ BS 1560 / BS 3381 / BS 10 / BS 4504
- ▶ DIN Flanges
- ▶ JIS Flanges

Remarks: Gaskets for non-standard flanges can be made upon request.

● **Thickness of Spiral Wound Gaskets**

Spiral Wound Gaskets are manufactured with a number of standard thickness which are designed to a specific thickness to attain the best sealing performance and adaptation to the flanges. The thickness is measured to the metallic windings not to the filler. The standard thickness values are as follows:

Initial Thickness	Compressed Thickness
3.2mm	2.3 - 2.5mm
4.5mm	3.2 - 3.4mm
6.4mm	4.6 - 4.8mm
7.2mm	4.8 - 5.0mm

- Spiral Wound Gaskets are available in a range of configurations and materials according to different service conditions:

Filler Material	Maximum Temperature	ASME B16.20 Colour Coding
Graphite	500°C	Grey stripe
PTFE	260°C	White stripe
Ceramic	1090°C	Light Green
Mica	1000°C	Pink stripe
Mica / Graphite	1000°C	N/A

Winding Material	Maximum Temperature	ASME B16.20 Colour Coding
Carbon Steel	500°C	Silver
304/304L Stainless Steel	650°C	Yellow
316/316L Stainless Steel	800°C	Green
Duplex 31803	800°C	N/A
347 Stainless Steel	870°C	Blue
321 Stainless Steel	870°C	Turquoise
Monel 400	800°C	Orange
Nickel 200	760°C	Red
Titanium	1000°C	Purple
Hastelloy B-2	1000°C	Brown
Hastelloy C-276	1000°C	Beige
Inconel 600	1000°C	Gold
Inconel 625	1000°C	Gold
Inconel X-750	1000°C	N/A
Incoloy 825	850°C	White

Inner Ring Material	Outer Ring Material
Carbon Steel	Carbon Steel
304/304L Stainless Steel	304/304L Stainless Steel
316 / 316L Stainless Steel	316 / 316L Stainless Steel
347 Stainless Steel	347 Stainless Steel
Monel 400	Monel 400
Inconel	Inconel
Duplex 31803	Duplex 31803
Titanium	Titanium
Copper	Copper
Hestelloy	Hestelloy

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

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.