



SPIRAL WOUND GASKETS



An ISO 9001 certified company.



Champion Spiral Wound Gaskets are composed of a metallic continuous strip with a special shaped profile, coupled with a continuous filling strip (Asbestos, PTFE, Graphite etc.) evenly wound in concentric spiral under constant stress. The Spiral Wound Gaskets are reinforced on the inner and outer diameter by winding of several electrically welded metal.

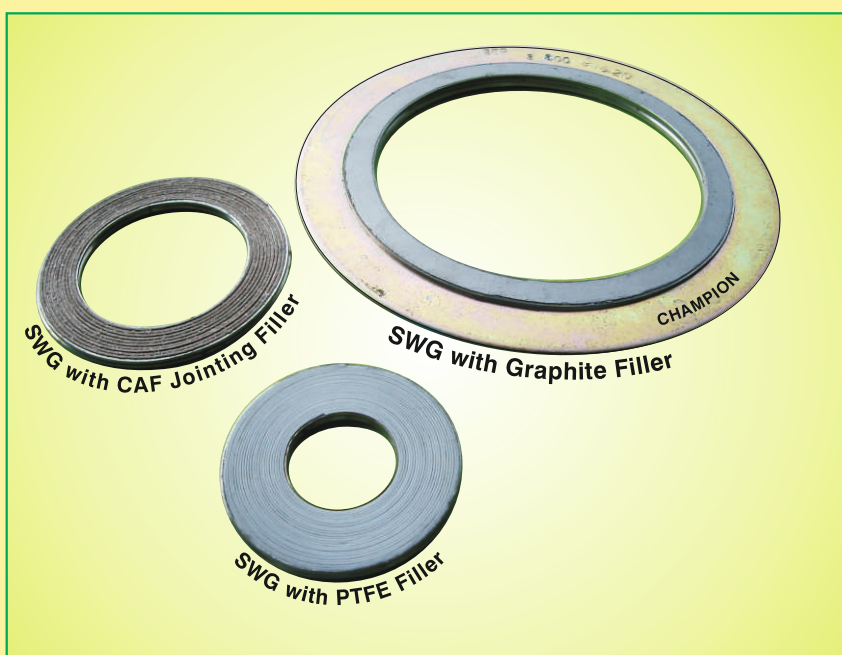
The main property of Spiral Wound Gasket, owing to elastic action of the special metallic strip profile, is that of offering a perfect sealing under fluctuating pressure and temperature conditions & maintaining tight elastic recovering. This elasticity can be modified by a proper selection of components. A proper selection of materials (both metal and fillers) allows the spiral gasket to accommodate the most varied operating conditions.

Spiral Gaskets are made as per ASME B16.20 to suit ASME B16.5 flanges and as per "A" Series and "B" Series to suit ASME B16.47 flanges. We also make spiral as per DIN 2632-2638, IS Standards, etc.

The material of construction of Spiral Wound Gaskets are as per annexure :

GASKET THICKNESS AVAILABLE :

NOMINAL	TOLERANCE
3.2 mm	±0.125 mm
4.5 mm	±0.125 mm



ANNEXURE

Filler Material	Recommended Maximum Temperature
Graphite	550°C
PTFE	260°C
CAF	440°C
Winding Material	Recommended Maximum Temperature
304 Stainless Steel	650°C
304L Stainless Steel	650°C
316 / 316L Stainless Steel	650°C
316Ti Stainless Steel	650°C
347 Stainless Steel	650°C
321 Stainless Steel	650°C

Notes :

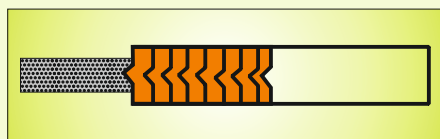
1. Inner Rings are required for all PTFE filled gasket.
2. Gaskets OD Tolerance for NB 15 to NB 200 ± 0.762 mm, NB 250 to NB 600 $+1.524$ & -0.762 .
3. Gaskets ID Tolerance for NB 15 to NB 200 ± 0.406 mm, NB 250 to NB 600 ± 0.762 mm.
4. Center ring OD Tolerance is ± 0.762 mm.
5. Inner ring thickness 2.97mm to 3.33mm.
6. Inner ring inside diameter tolerance is for NB 32 to NB 80 ± 0.762 mm, NB 100 to NB 600 $+1.524$ mm.

Note: As the company's products are used for a multiplicity of purposes and as the company has no control over the method of their application or use, the company excludes all conditions or warranties, expressed or implied by statute or otherwise, as to their products and / or their fitness for any particular purpose. Any technical co-operation between the company and the customer is given for the customer's assistance only and without liability on the part of the company.

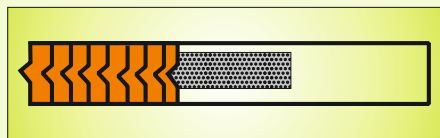


CHAMPION Spiral Gaskets are manufactured in following types :

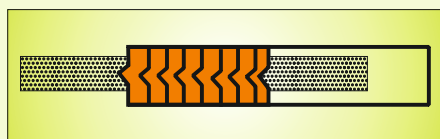
Spiral Without Inner And Outer Ring Suitable For Groove Flanges. These are suitable for large tongue and groove joints, large male and female joints. Recommended for valves & high pressure pumps. Highly suitable for use where limited gasket sealing width is available.



Spiral With Only Outer Ring Used as Centering Device And Compression Stop - This is a standard Spiral Wound Gasket consisting of a sealing element and a solid metal outer ring. The outer ring performs the following important functions. (A) Centres the gasket in the joints (B) Furnishes extra radial strength to help prevent gasket blow out (C) Resists Atmospheric conditions (D) Provides a gauge reference point for determining compression during bolt pull up.

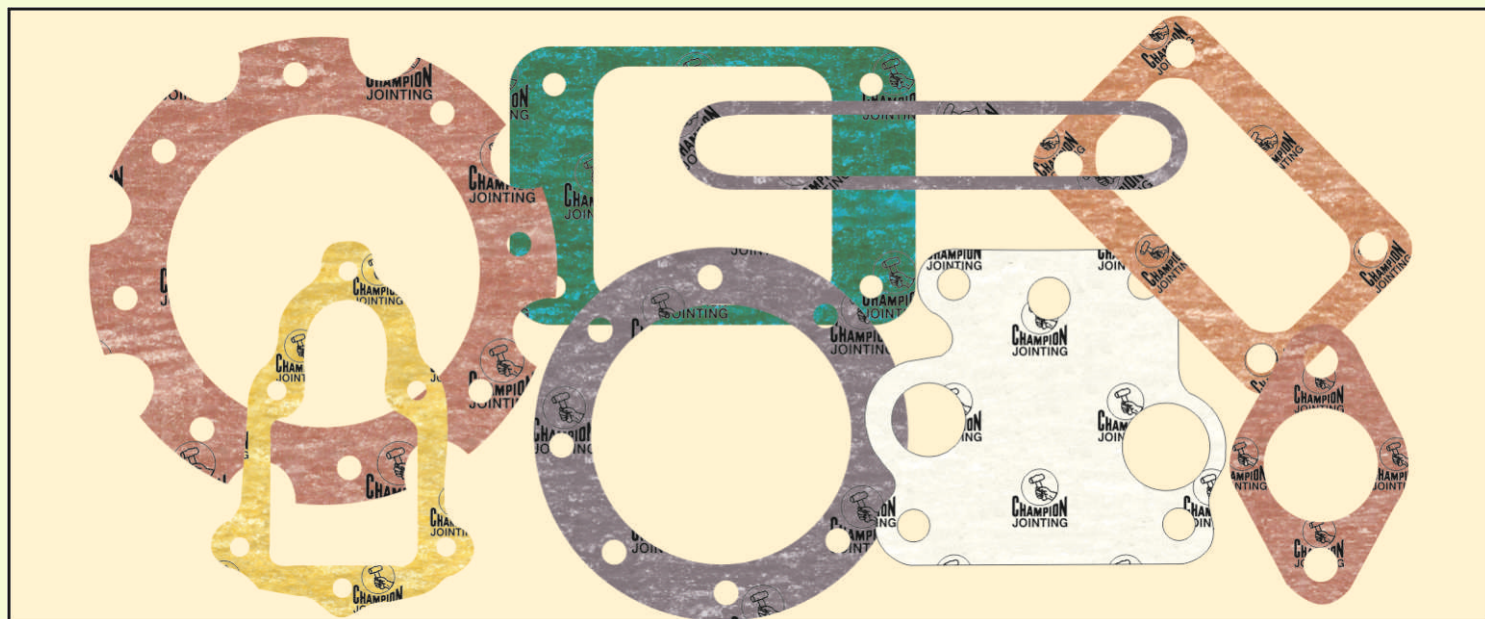


Spiral With Only Inner Ring used as a high pressure temperature capability - for groove flanges and general application, used in Pressure vessels, Pumps, Boilers, Manholes, Caps, Covers, etc.



Spiral With Inner And Outer Ring of Solid Metal For High Pressure And Temperature Applications suitable for use with flat and raised face and recommended for high pressure temperature service, particularly where corrosive or toxic fluid are involved. Highly suitable for vacuum services.

PRE-CUT GASKETS (PCG)



We are manufacturing wide range of Compressed Gaskets, i.e. Pre-cut Gaskets out of **CAF / NON ABSESTOS, PTFE, GRAPHITE** etc.. The Gaskets are Manufactured as per **ASME B16.21** standards suitable for flanges as per **ASME B16.5** and **ASME B16.47 Series A & B**.

We also manufacture gaskets as per **IS, BS, DIN** Standards, and non-standard Gaskets as per customer's specifications and drawings.

Gasket Thickness Range : 0.4mm to 6.0mm

Full Face Gasket : For Flat Face Flanges

Flat Ring Gasket : For Raised Face Flanges



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