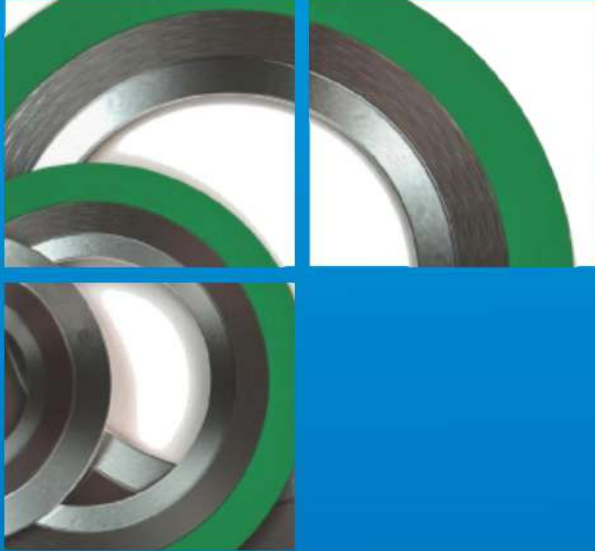


JAS-ANZ



# S.P. Engineers

AN ISO 9001 : 2008 CERTIFIED GASKET MFG. COMPANY



## **Manufacturer of Quality Industrial Gaskets,**

"Spiral Wound/Low Stress Gasket, Corrugated, Jacketed - Double Jacketed. Oval-Octagonal Ring Joint Gasket, Lens Ring, Tapper Ring, CAF/Non Asbestos/Rubber Cut Gaskets" etc. Also Hylum - Bakelite Fabricated Insulating Gaskets, Kamprofile, Tanged Graphite, Metal Bonded Rubber Gasket, Metal/Rubber 'O' Ring, Metal Reinforced, Plug Gasket, Lipseal, Ceramic/Glass/Fiber Rope & Gaskets, P.T.F.E. Gasket/Envelope/Packing/Sheet.







We have pleased to introduce ourselves as a one of the leading quality Consious manufacturer of various type of industrial Gasket like Jacketed, Spiral wound, Teflon, Corrugated, Oval and Octagonal ring of different materials CAF cut gasket and any special type of Gasket as designed by the customers. We have successfully developed and supplied high quality Gasket Manufactured from various materials like Compressed Asebstos fibre, Teflon, Copper, Brass, Steel, Aluminium, etc. We now have to our credit the success of supplied different type of gasket to private and public sector units.

We would like to inform further that we are registered as a SSI unit & NSIC unit having equipped workshop with required automatic machinery for manufacturing all types of industrial gaskets being presently manufactured by us as per product catlogues enclosed herewith. We also under take manufacturing of Tailor - made gaskets suiting to the requirement of valued clients. We have supplied various type of gasket for critical application to chemicals Industries and vessel Manufacturers. Please note that we have supplied all type industrial gasket like spiral wound, Jacketed 'o' rings, oval and octagonal ring corrugated ring serreted ring etc.

## Spiral Wound Gaskets

It can be used in Refining plant, Chemical & Petrochemical plant, Power plant, Nuclear plant, Compressors, Piping & heat exchanger & Vessels fertilizer plant & Cement plant & Refineries etc.

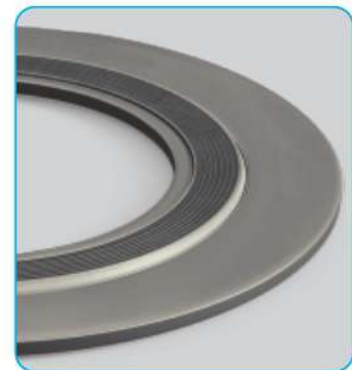
The spiral wound gaskets are made from 'V' Shaped metal strip with spirally wound filler. Several continues turms of the metallic winding are secularly welded with spot welding as per API Std. The normal shape is circular but it is possible to make it Elliptica shape also. The use of steel supporting Inner & Outer ring of gaskets are made with the same material of the spiral wound gaskets.

Spiral wound gaskets are manufactured with Inner ring, with outer ring, with Inner & Outer Ring & without outer Rings as per buyers specification. The most popular

combination in this type of gaskets is S.S. 304 with CAF Filler. The filler materials with metal strip are CAF / Asbestos / P.T.F.E./ Graf oil / Non asbestos etc.

Spiral wound gaskets are manufactured in dimensions from 1/4" to 96" and thickness from 1/8" to 3/8" Generally, gaskets thickness is 0.175" and outer ring thickness is 0.125".

Normally spiral wound gaskets are made as per ANSIB 16.5 std., ASMED 16.20 Std., API 605 Std. DIN 10 std. Bs 10, BS 3381, Bs 4865, Spiral wound gaskets are made in any size as per the customer's specification (Non Standard size)



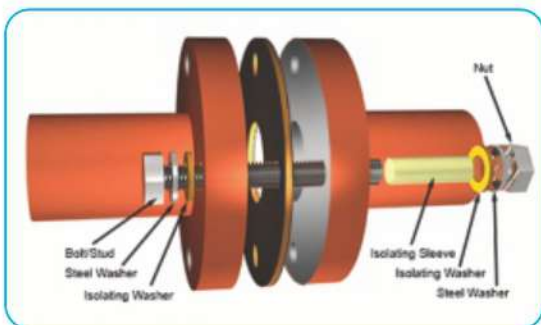


## Single Jacketed Metal Gaskets

These gaskets are used for narrow application for pumps seals etc. These are made in normally circular shape & non circular shape. This gaskets can be round, square or rectangular etc.



## Hylum-Bakelite Fabricated Insulating Gaskets



Insulating sets are essentially used for pipeline flange corrosion protection, where a seal is required between dissimilar flange materials. The use of dissimilar metallic flanges with a conductive gasket material accompanied by a suitable electrolyte may set up a galvanic cell which will corrode the anodic metal. Insulating sets are also used to electrically isolate flange joints, preventing the flow of electrostatic charge along pipelines.

S.P. Gasket offers three standard types of insulating sets to suit raised face, flat face, and ring grooved flanges.

- Spiget make Gaskets Type "A" for Raised Face Flanges
- Spiget make Gaskets Type "B" for Full Face Flanges
- Spiget make Gaskets Type "C" for Ring Joint Gaskets

## Ceramic/Glass/Fiber Rope & Gaskets

Product Description: Ceramic Fiber Gaskets are cut to suit from Ceramic Cloth as per the dimension and specification of our client. It is extremely suitable for sealing at high temperature condition and has better compressibility & resiliency as compared to its alternatives. For high pressure condition, a wire mesh insert of appropriate thickness is applied to strengthen the gasket.

### Technical Parameters:

- Maximum Temperature : 1260oC
- Continuous Working Temperature : 800oC
- Melting Point : 1750oC



## Double Jacketed Corrugated Filled Gaskets



Gaskets tend to seal better than other types because of the corrugations. They are used for circular and moderately noncircular shapes in widths 12mm and wider. With Corrugated metal filled instead of asbestos, operating temperatures is limited only by the metal selected.

- More resilient than Double Jacketed-Soft-Filled.
- For rings only or Flanges of special shape gaskets.
- May be used in place of spiral wound gaskets. In very large diameters or wide flange sizes.
- Excellent choice for difficult installations such as tower gaskets.



## Ring Type Joint Gasket

"RTJ" (Ring Type Joint) gaskets are manufactured in accordance with API-6A, 17D and ASME B16.20 specifications. RTJs have "R" numbers assigned to them for pipe size and pressure class identification. Stock materials include soft iron, low carbon steel, 4-6 chrome (F5), 304, 304L, 316, 316L, 347, Monel, Inconel, Incoloy, Duplex, Super Duplex etc...

### Ring Type Joint - (API Ring Joint Gaskets)

API ring joint gaskets come in two basic types, an oval cross section and an octagonal cross section. These basic shapes are used in pressures up to 10,000 psi. The dimensions are standardized and require specially grooved flanges.

### Special Ring Type Joint Gasket

For critical and non standard applications, where ring type joints are unsuitable in their standard form, S.P. Gasket offers a range of specialized ring type joint gaskets to suit the needs of the petrochemical industry.

### BX and RX Ring Gaskets

The BX ring gasket differs from the standard oval or octagonal shape in a way that it is square in cross section and tapered in each corner. BX can only be used in API 6BX flanges. RX ring gaskets are similar in shape to the standard octagonal ring joint gasket but their cross section is designed to take advantage of the contained fluid pressure in effecting a seal. They are both made to API 6A specifications.



## Corrugated Metallic Gaskets



Normally the corrugated gaskets are used in Glass lined vessels & valves. These gaskets are made from SS/MS material. The ranges of this gasket are from 15NB to maximum as per clients requirement. Normally corrugated pitches are 4mm, 5mm, 6mm with peak to peak.

The superior technology of the Corrugated gaskets ensures excellent sealing performance and reliability, even in the most difficult applications. Corrugated metal core with a compressible sealing element of various materials, for resistance to a wide range of harsh conditions, including extreme temperature, corrosive chemicals and thermal cycling.

## Double Jacketed Metal Gaskets



These gaskets provides more support to flanges than single jacketed gaskets & are used when filler material to be protected. These gaskets are in circular & irregular shape also. Generally these gaskets are used gaskets is less than 6mm thick. There is no diameter limitation in this type of gaskets. Filler material are to be used like CAF / Asbestos / P.T.F.E. / graphoil depends on pressure & temperature & corrosion Conditions of the equipments.

## Rubber Gaskets/'O' Rings/Sheets/Extruded/Moulded Items

These gaskets are made from different types of Rubber sheet like Neoprene, Butyl, E.P.D.M., Viton, Silicon, & Natural Rubber etc. as per the clients requirement. Normally the gaskets are as per ANSI B 16.21 Standard, ANSI B 16.5 Standard, Table-BS-10D, Table-E&F It is Ring type as well as full face.

This range of products is used for chemicals, centrifugal pumps, generators, cement, marine industry, hydraulic cylinders, pumps, pneumatic applications in earth moving machines.

**Range for 'O' Rings :** Available in diameter range of 5 mm to 5000mm and various cross sections.

**Range for Gaskets :** From 15 NB to 2500 NB and pipe sizes, made from polymer - Natural, Nitrile, EPDM, Neoprene, SBR, Viton, Silicon, Butyl, Lead Free Rubber Grades are also available for Nuclear Applications.



## P.T.F.E. Gasket/Envelope/Packing/Sheets



These gaskets are made with 0.5mm or 0.75 mm P.T.F.E. envelope with CAF insert with S.S. 304 corrugated ring. The gaskets are made from P.T.F.E. thin sheet (1mm, 1.5mm, 2mm, 3mm & 6mm) as per the standard & clients sketch.

Polytetra fluoroethylene (PTFE), which are widely used in national defense, atomic energy, petroleum, wireless, electric machinery and chemical industries etc.



**Our range has the following properties:**

- ➔ Long term application temperature: 250°C to (-)200°C
- ➔ Low temperature: Soft even at (-)100°C
- ➔ Corrosion resistance: Resistant to aqua regia and all organic solvents
- ➔ Weather resistance: Best aging life in plastic, high lubricants
- ➔ Smallest coefficient of friction in plastic: 0.04
- ➔ Adhesion: Smallest surface tension in solid materials, nontoxic & physiologically inert, excellent behaviour of electricity

## Flat Type Of Gaskets

These gaskets are made from any soft material. Material used for this gaskets are CAF/Rubber/Asbestos S.S./P.T.F.E./Brass/Copper/M.S. etc. in any size & shape. The thickness of gaskets are as per the customer's specification.





## Graphite Rings / Tanged Graphite Gasket



Graphite is high purity carbon material containing fibres binders agent. It offers excellent sealability. It is used in high temperature the gaskets and rings are manufacture with S.S. Steel insert, S.S. Mess Insert or plain sheet.

Reinforced expanded graphite gasket are punched or cut from pure expanded graphite sheet or reinforced expanded graphite sheet. Reinforced expanded graphite gasket has excellent corrosion resistance, high and low temperature resistance.

Reinforced expanded graphite gasket has good compression resilience and high intensity. Reinforced expanded graphite gasket can be cut into all kinds of circular, complicated geometric expanded graphite cut gasket.

Reinforced expanded graphite gasket is widely used in pipe, valve, pump, pressure vessel, thermal exchanger, condenser, engine, air compressor, exhaust tube, refrigerating machine, etc.

We offer expanded graphite cut gaskets with SS304 insert, SS304L insert, SS316 insert, SS316L insert, thin plate insert and other inserts.

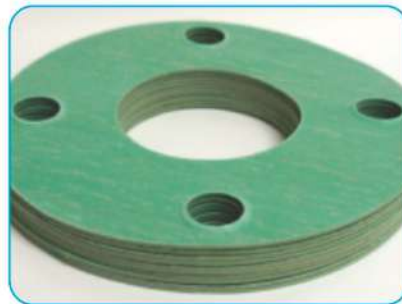
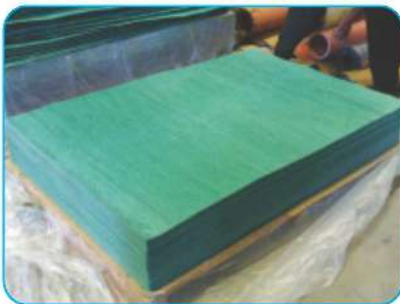


## CAF/Non-Asbestos Cut Gaskets/Packing Ropes/Sheets

These gaskets are made from compressed Asbestos Fiber jointing sheet. (High Pressure). These gaskets are made from graphoil sheet also. There are different grades in CAF jointing sheet which are used as per the clients requirement. These gaskets are made from Non-Asbestos sheet also. Normally the standard of this gaskets are Ring Type & full face.

We are making any other special types of gaskets as per requirements of customers specification (Technical).

Non Asbestos Gaskets are used as heat exchanger gaskets, compressor and bonnet valve gaskets and in pipe flange applications etc. Compressed Non Asbestos Fiber Gaskets are circle cut or die cut gaskets from compressed non asbestos jointing, manufactured from carefully picked fiber intimately blended with suitable heat resistant binders and vulcanized into sheets of homogenous compositions and uniform thickness.



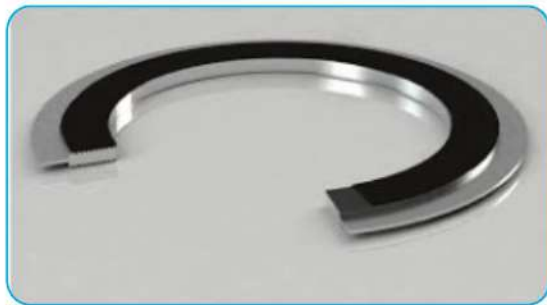
## Lens Ring & Tapper Ring Gasket

Lens ring gasket, also known as washer with ball face, is mainly used for the high pressure pipe connections. The primary function of lens ring gasket is to seal. Metal lens gaskets includes metal flat gasket, triangular gasket, double cone ring, C-ring and C type gasket, ring gasket, serrated gasket, wave gasket and hollow o-ring, etc..



## → Kamprofile Gasket ←

The Kamprofile is the preferred gasket when improved performance at low seating stresses is required. It features excellent anti-blowout properties associated with the reliability of a solid metal-to-metal seal combined with soft sealing face to ensure a tighter joint. Kamprofile is an ideal replacement for problem applications associated with jacketed gaskets.



### Design Features

- ➔ Fabricated in nominal pipe size and pressure.
- ➔ Configured in standard shapes for heat exchanger application.
- ➔ Available with centering ring for use on raised face flanges.
- ➔ Metal cores available in soft iron, stainless steel and exotic materials.
- ➔ Standard surface materials of flexible graphite, nuclear grade graphite or Expanded PTFE.
- ➔ Low seating stress & Optimum combination of solid core with soft sealing face.



## QUALITY CONTROL



Our gaskets undergo various exhaustive quality control tests. We have an in-built quality control procedure, visual and dimensional checks on all the manufactured gaskets and final compression. Compression Recovery and Sealeability check on gaskets selected on a statistical sampling technique. In addition, high pressure, high temperature cyclical conditions sealability check is also carried out.

All raw materials are checked for composition and other properties. All the measuring instruments and testing equipments are subjected to periodic calibration, The following details are to be given by the purchaser :

1. Nominal Pipe Size, Pressure rating and Operating Temperature.
2. Type of the gaskets.
3. Thickness of the gaskets.
4. Material of the centering ring.
5. Flange Standard
6. Service Medium.

It is necessary to mention the specification standard of gaskets at the time making enquiries. If the requirement is to purchaser's specifications, the relevant drawing and sketches should be forwarded.

We hope that the above detail information shall be enable to you to register our name in your approved vendor's list for requirement of Industrial gaskets.





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