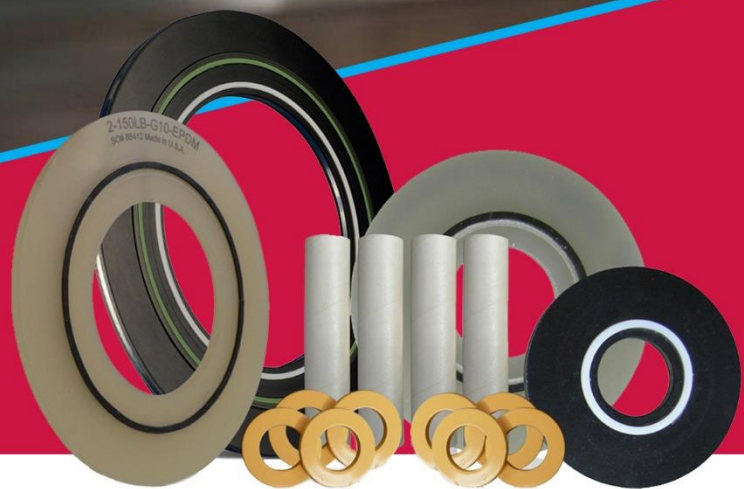




HOOMAAN
Trading House Co



ALL SEALING SOLUTIONS

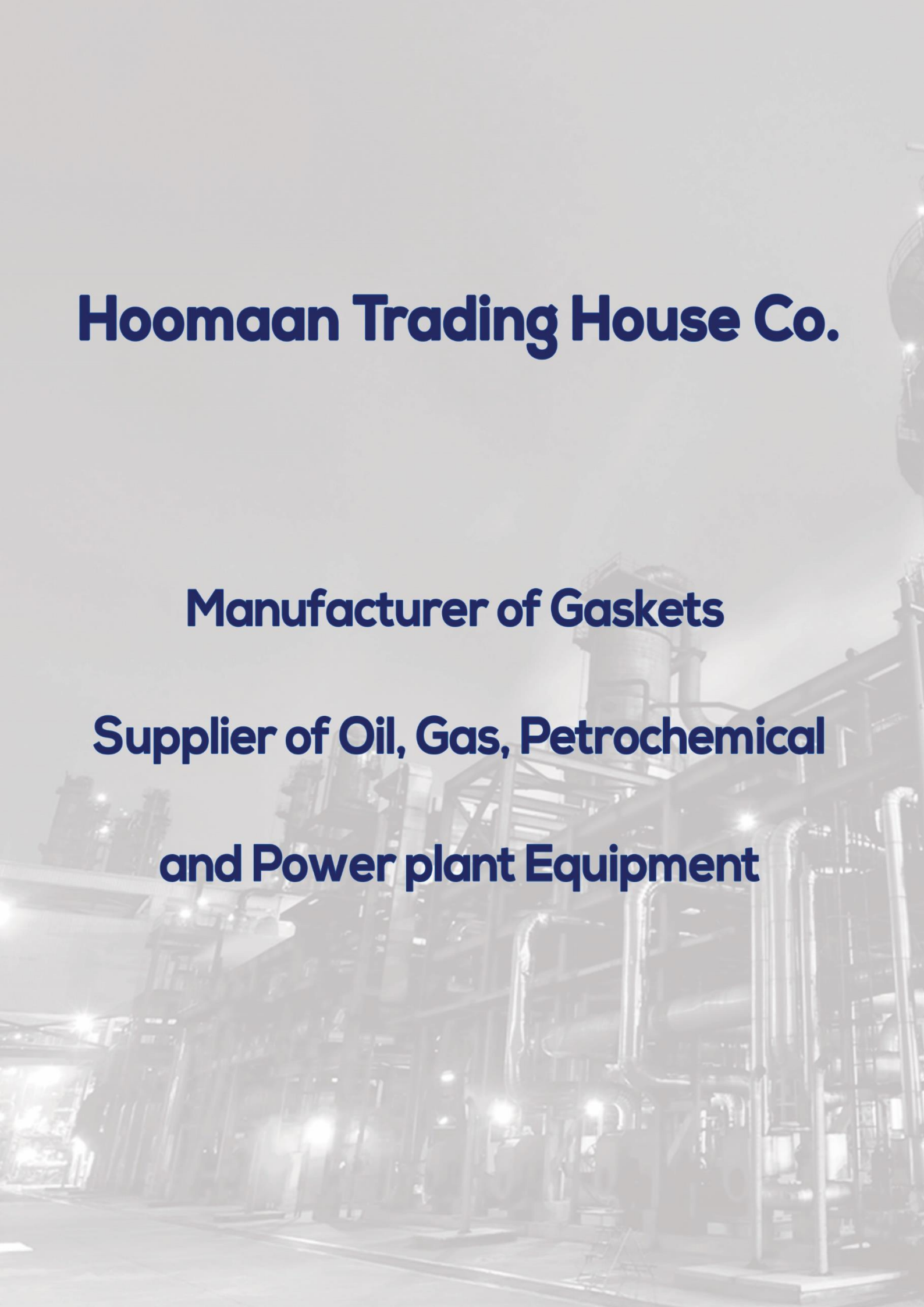
www.hoomaanco.com

Hoomaan Trading House Co.

Manufacturer of Gaskets

Supplier of Oil, Gas, Petrochemical

and Power plant Equipment



ALL SEALING SOLUTIONS

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Hoomaan Company is committed to providing the best solutions using experienced engineers and consultants with the latest global technologies and advancement to help you in reducing the operational costs and solve your challenges in sealing field and gasket to increase the efficiency.

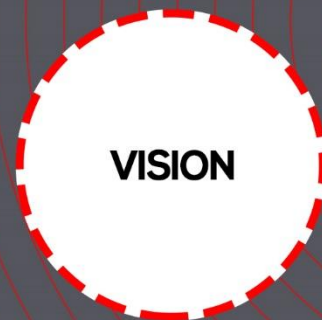
We are committed to minimize the Destructive impacts of environment and provide your safety as well.

The costs that are imposed negligently in choosing the appropriate product and solution will cause a lot of losses.

Hoomaan Company has provided the quality of standard in Product and services areas for you by placing the research and development (R&D) and education units as its key elements of the business.



MISSION



VISION

Our goal is to become the top consultant company in providing solutions and solving sealing and gasket challenges in Iranian industries. We believe that the nature of what we provide is more than simple product.

In fact, we understand your unique challenges in sealing field and choosing Gasket provide the innovative solutions in order to safety, process optimization and reducing cost.



Water jet cutting

Hoomaan Company aim to provide the water cutting service CNC (water jet) in Iran with focus on Hormozgan, Kerman, Yazd, Fars, Khuzestan, Asaluyeh provinces.

Water jet cutting is the subset of mechanical techniques that are considered as high-quality cutters.

This cut does not remain any effect on the work piece because it does not create heat and inherently has a cold cutting effect.

This set has the cutting power of Cutting of any raw material with a precision of 0.1 mm, including:

Tile, glass, wood, PVC, rubber, plexi glass, polycarbonate, acrylic, polyamide, aluminum, iron, stainless steel, all kinds of steel, colored metals, rice, copper, titanium, ceramic stone and ...

Some benefits of this cutting are the following:

- High-speed cutting
- The power of cutting raw materials of different thickness (in hard materials such as stone and steel up to 300 mm)
- Reduction in costs
- Increasing the speed and quality
- High-quality edges
- The possibility of implementing complex designs such as complex curves
- Reduction in waste
- Failure to produce chips, crumbs, toxic and hazardous vapors, and environmental protection





“HOOMAAN SPIRAL WOUND GASKETS”

DESCRIPTION

Hoomaan Spiral Wound Gaskets are widely used as high integrity and sustainable gaskets. The sealing element is constructed from preformed, V-shaped metallic windings with intermediate soft sealing fillers. Most used filler materials are Graphite and PTFE. Due to the gasket construction, SWG's offer high compressibility and recovery.

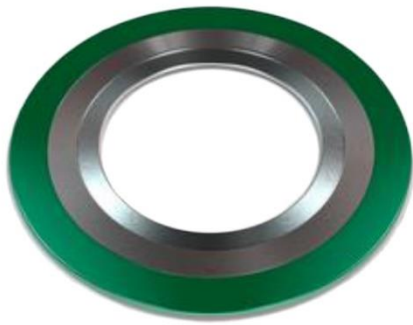
APPLICATION

Oil and Gas Industry, Chemical Industry Steam, On- and Offshore exploration, pipeline systems, pressure vessels and exchangers.

CHEMICAL COMPATIBILITY AND TEMPERATURE

Spiral Wound Gaskets can be used in a wide variety of media, i.e. a pH range varying from 0 -14. Application/Compatibility guide is available on request.

Temperature from -250 °C up to 450 °C (steam up to 650 °C)



TYPE IHC

Hoomaan type IHC SWG's are provided with an inner and outer Centering ring. These gaskets are suitable for ASME B16.5 raised faced flanges up to 2500 lbs. and for EN/DIN flanges up to PN400.

TYPE IH

Hoomaan Style IH SWG's are provided with an inner ring. The IH gaskets are suitable for ASME B16.5 tongue and groove or male / female (Spigot to Recess) flanges up to 2500 lbs. Available also for Heat Exchanger applications.



TYPE HC

Hoomaan Style HC SWG's are provided with an outer guide ring. The HC gaskets are suitable for ASME B16.5 raised faced flanges up to 600lbs and for EN/DIN flanges up to PN40. We strongly recommend to use IHC gaskets with inner guide ring in all circumstances



TYPE H

Hoomaan Style H SWG's are provided with a sealing element only. The H gaskets are suitable for ASME B16.5 tongue and groove or male / female flanges up to 2500lbs. They are mostly used in pumps and valves. Available also for Heat Exchanger applications.





“HOOMAAN KAMMPROFILE GASKET”

DESCRIPTION

Hoomaan kammprofile gaskets consist of a metallic core with machined concentric grooves. Both faces are produced with soft sealing layers consisting of either graphite, PTFE or Mica.

Kammprofile gaskets are the preferred gasket solution when improved sealing and safety performance is required. Metal gaskets with serrated faces have proven to be very effective for sealing flange connections, particularly for applications where high temperatures, pressures and cycling conditions are encountered.

APPLICATION

Oil and Gas Industry, Chemical Industry, Steam, On- and Offshore exploration, pipeline systems, pressure vessels, heat exchangers and coolers. Kammprofile gaskets have proven records in demanding application with heat-exchangers with fluctuating and cycling process conditions. Superb alternative for metal jacketed gaskets.

CHEMICAL COMPATIBILITY

Kammprofile Gaskets are suited for a wide variety of media, e.g. a pH range varying from 0 - 14. Temperature range from $-250\text{ }^{\circ}\text{C}$ up to $450\text{ }^{\circ}\text{C}$ (steam $650\text{ }^{\circ}\text{C}$) with graphite layers. Mica layers can withstand temperatures of $1000\text{ }^{\circ}\text{C}$.

DELIVERY OPTIONS

All dimensions in a wide variety of materials are possible. Available for standard and non-standard equipment gaskets. EN3.1 10204 certificates can be delivered on request, as well as NACE MR0175/ISO 15156 conformity statement.

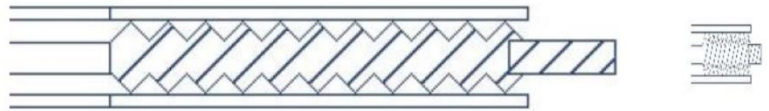
FEAUTERS AND BENEFITS

- Tolerant of inconsistent bolt torquing or installation errors
- Rigid Construction makes them easy to install
- Low seating stress results in minimal damage to flange
- Small thickness of sealing layers allows for minimal fugitive emission
- Unlimited shelf life
- Cannot be over compressed
- High Seal Integrity
- Available in a variety of materials

Kammprofile Gaskets offered by Hooman are available in three profiles. The components can be produced from virtually any machinable material and can incorporate a variety of sealing faces selected based on media and temperature compatibility.

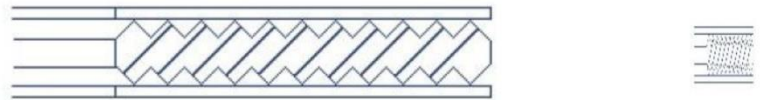
Kammprofile Style L

Kammprofile Style L profiled gaskets are commonly used for applications involving gaseous materials and high temperature differences in the inner and outer rings.



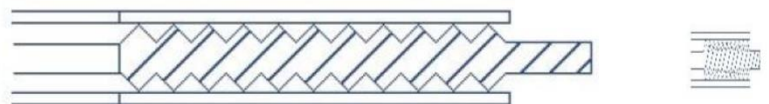
Kammprofile Style TG

Kammprofile Style TG profiled gaskets are most often used with tongue and groove and male and female flanges.



Kammprofile Style F

Kammprofile Style F profiled gaskets are made for flat or raised face flanges and designed with built in centering rings.





“HOOmaan RING TYPE JOINT”

DESCRIPTION

Hoomaan Ring type joint flange gaskets (RTJ gaskets) are used in applications that involve extreme pressures and high temperatures. The gasket material ideally needs to be roughly 30 Brinell less than the flange Material to ensure sufficient deformation of the gasket without damaging the flange facing. All Hoomaan ring type joint gaskets are manufactured in compliance with API6-A and ANSI B16.20 specifications. Whether you are looking for a standard ring type joint gasket or custom design assemblies, our team of application engineers have the product and application know how to find the right solution for your specific application.

CHEMICAL COMPATIBILITY & TEMPERATURE

Corrosion and chemical resistance depend on the selected RTJ gasket material. The temperature ranges can be found in the Technical Specifications.

DELIVERY OPTIONS

Oval and Octagonal shaped RTJ gaskets are available in ring numbers R11 up to R105. BX shaped RTJ gaskets are available in ring numbers BX150 up to BX303.

RX shaped RTJ gaskets are available in ring numbers RX20 up to RX215.

Hoomaan can produce custom-made gaskets according to customer specifications.



STYLE R OCTAGONAL

Ring Joint gaskets are widely used between pipeline flanges, valves and pressure vessels in the Oil & Gas industry; Withstand high pressure situations up to 400 bar (pending on flange construction and rating); Style R gaskets are suitable for ASME B16.5 flanges up to 2500 lbs. API 6A type 6B flanges can withstand a pressure up to 5000 psi.

STYLE R OVAL

Ring Joint gaskets are widely used between pipeline flanges, valves and pressure vessels in the Oil & Gas industry. High pressure up to 400 bar (pending on flange construction and rating) Style R gaskets are suitable for ASME B16.5 ring joint flanges up to 2500 lbs. In case of API 6A type 6B flanges are used, pressure up to 5000 psi can be applied.



STYLE BX

Ring Joint gaskets are widely used between pipeline flanges, valves and pressure vessels in the Oil & Gas industry. High operating pressure up to 1378 bar when applied in API 6B. BX gaskets are suitable for API 6A (ISO 10423) type 6BX flanges for working pressure rated 10000, 5000 and 20000 lbs. flanges.

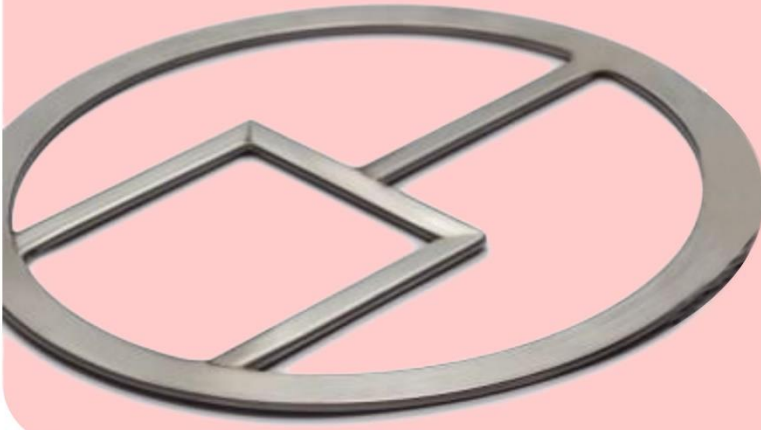


STYLE RX

Ring Joint gaskets are widely used between pipeline flanges, valves and pressure vessels in the Oil & Gas industry; Withstand high pressure situations up to 400 bar (pending on flange construction and rating); Style RX gaskets are suitable for ASME B16.5 flanges up to 2500 lbs. API 6A type 6B flanges can withstand a pressure up to 5000 psi.



HOOMAAN METAL JACKETED GASKETS



DESCRIPTION

Metal jacketed gaskets are proven sealing elements for use in apparatus construction, which are however increasingly being replaced at temperatures up to 550 °C by metal/soft-material gaskets. Metal jacketed gaskets offer an economical seal where sealing faces are narrow and can be produced in a variety of shapes.

Metal jacketed gaskets are manufactured using graphite, compressed fiber sheet or millboard as a soft filler, protected by an outer double jacket in various metals such as soft iron, copper or stainless steel. These gaskets can be made with integral or welded pass bars. Metallic gaskets can come in different styles like; double jacket, single jacket, or solid metal.

DOUBLE JACKETED GASKET

Double-jacketed gaskets are probably the most commonly used style of gaskets in heat exchanger applications. They are available in virtually any material that is commercially available. They are also extensively used in standard flanges where the service is not critical. Since most double-jacketed gaskets are custom made, there is virtually no limit to size, shape or configuration in which these gaskets can be made.



DOUBLE JACKETED CORRUGATED GASKET

The double-jacketed corrugated gasket is an improvement on a plain jacketed gasket in that the corrugations on the gasket will provide an additional labyrinth seal. It also provides the advantage of reducing the contact area of the gasket, enhancing its compressive characteristics. A double-jacketed corrugated gasket still relies on the primary seal on the inner lap.



SINGLE JACKETED GASKET

The majority of applications for single-jacketed gaskets are normally 1/4" or less in radial width. This type of gasket is widely used in air tool applications and engine applications where space is limited, gasket seating surfaces are narrow and relatively low compressive forces are available for seating the gasket.

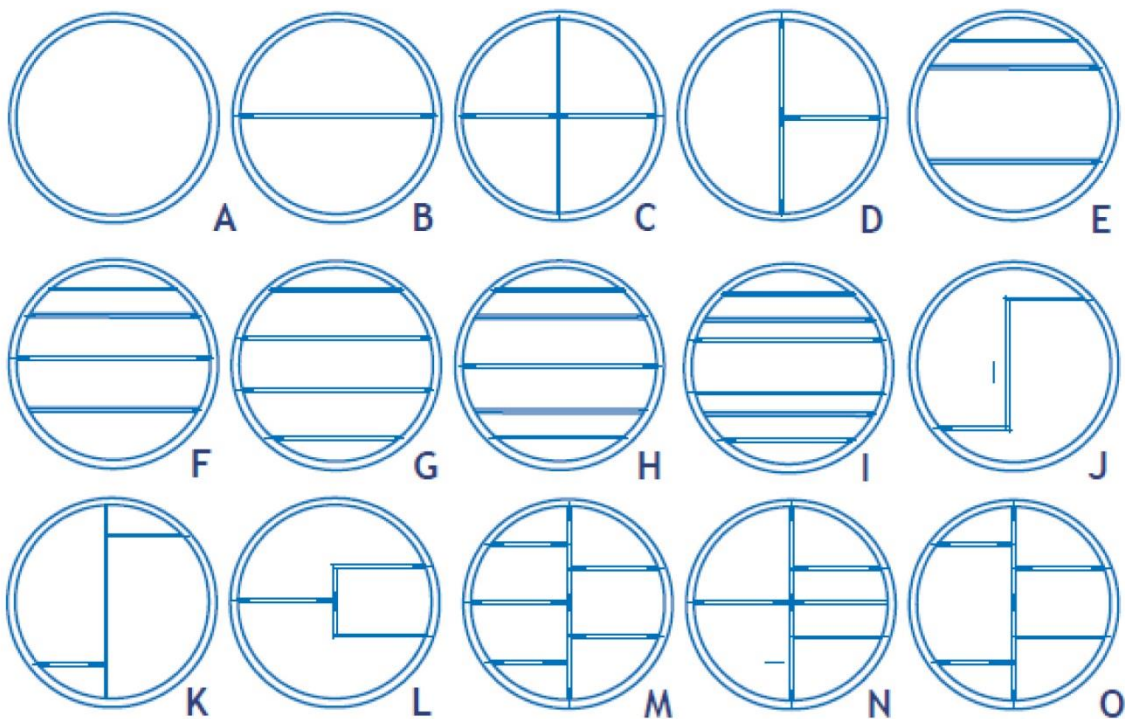


SINGLE-JACKETED OVERLAP

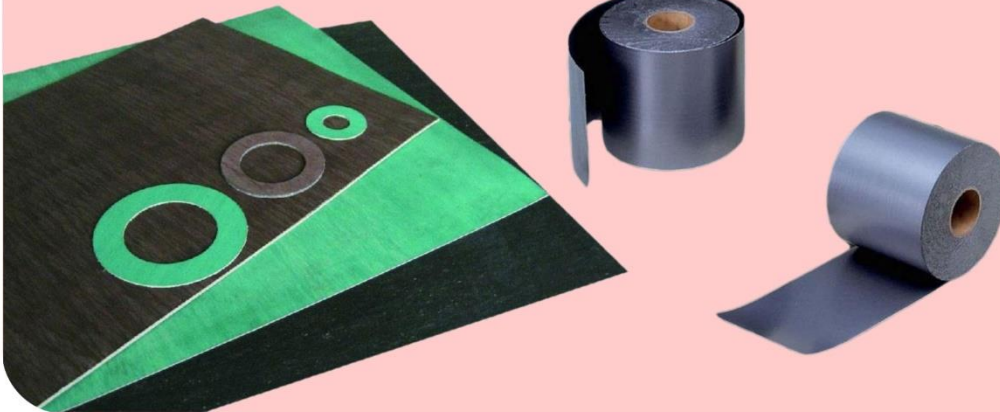
In the single-jacketed overlap construction the maximum flange width is approximately 1/4". This type of gasket is used when total enclosure of the soft filler material is required and when the flange width makes it impractical to use a double-jacketed gasket.



VARIETY OF CONFIGURATIONS AND SHAPES



HOOMAAN NON METALLIC GASKETS



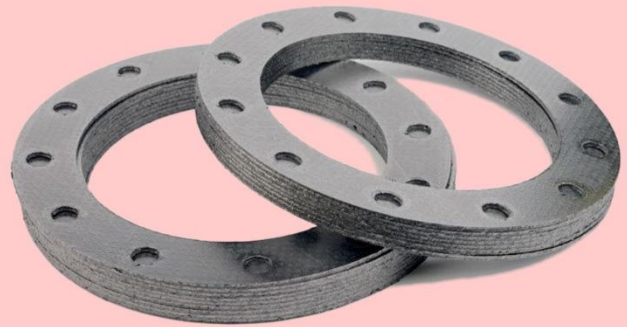
Hoomaan offers Soft material products designed for a wide range of applications in petrochemistry, chemistry, industrial and other equipment requiring specific sealing solutions. The jointing Gaskets can be supplied as a sheet or cut gaskets, both supplied in either standard or non-standard dimensions. We supply our jointing gaskets from most reputable companies in the world such as Klinger, Flexitallic, Garlock and etc.

Our flat gaskets can be manufactured from an extensive spectrum of materials, rubbers, flexible graphite, PTFE, Mica, Cork, non-asbestos sheet products and Most of the sheet types can be supplied with a wire insertion upon customer's request.

Many factors are taken into consideration when helping you select the right product including temperature, application, media and pressure. Hoomaan stock a wide range of competitively priced, utility grade gaskets to meet varying specific applications such as high temperature, low load, high torque and high pressure for many different media.

- Non Asbestos Fiber Sheet
- Asbestos Fiber Sheet
- Laminated Graphite Sheet
- PTFE Sheet
- Rubber Sheet
- Mica Sheet
- Vegetable Fiber Sheet
- Rubber Cork Sheet
- Cut Gasket
- Envelope Gasket

EXPANDED GRAPHITE SHEETS

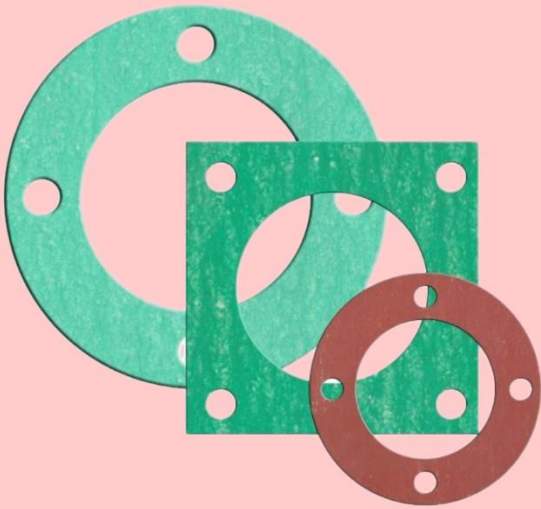


This is an all graphite material containing no resins or inorganic fillers. It is available with or without a metal insertion. Flexible Graphite has outstanding resistance to corrosion against a wide variety of acids, alkalis and salt solutions, organic compounds, and heat transfer fluids, even at high temperatures. There are two proven metal reinforced flexible graphite laminate materials ideal for %95 of all sheet gasket applications. These gasket materials meet refinery, petrochemical and industrial service requirements.



PTFE SHEETS

All of the plastics, PTFE (Polytetrafluoroethylene) have emerged as the most common plastic gasket material. PTFE's outstanding properties include resistance to temperature extremes from -200 °C to +260 °C (for virgin material). PTFE is highly resistant to chemicals, solvents, caustics, acids except free fluorine and alkali metals. It has a very low surface energy and does not adhere to the flanges. PTFE gaskets can be supplied in a variety of forms; either as virgin or reprocessed material and also with a variety of filler material. The principal advantage in adding fillers to PTFE is to inhibit cold flow or creep relaxation.



**COMPRESSED NON-ASBESTOS
FIBER JOINTING SHEET**

Most of today's Compressed Non-Asbestos gasket materials contain either Kevlar, an aramid fiber, fiberglass, carbon fiber, graphite or another mineral fiber.

Regardless of the manufacturer, the basics are the filler and the elastomer used. The basic Elastomers are: NBR (Buna-N), SBR, EPDM or Neoprene. If you examine which material you need (as defined by the application) and select the non-asbestos gasket material with that elastomer you will usually do well. This method will also allow you to select a competitive brand that will serve your application. No two materials are identical so caution must always be exercised. In general, the common "Binders" are:

NBR - good for oils, gas, mild chemicals and water

SBR - good for saturated Steam, mild chemicals inert gas and water

Neoprene - good for saturated steam, refrigerants, oils, fuels, mild acids, alkalies and water.

EPDM - good for saturated steam, mild chemicals and water

Each material listed regardless of manufacture will indicate the "Binder" which makes cross referencing equal materials a much easier task. You should however pay attention to Tensile strength (for pressure resistance) Temperature ratings, and Compression / Recovery ratings.

You must also consider for cut gaskets Size, Temperature, Application, Media, Pressure, Speed (if dynamic) of your specific application. If this is for a finished gasket you will also want to consider bolt loads, the size of bolts, the number of bolts, the bolt material and the available torque.

We at Hoomaan can assist you with a material selection of non-asbestos gasket materials or sell to you a non-asbestos gasket material online at www.hoomaanco.com. We can also offer a number of non-asbestos gasket manufacturers products to meet your specifications.

CORK RUBBER SHEETS



Rubber Bonded Cork Gasket Jointing manufactured from high quality oak cork bonded with a synthetic rubber. Combining the natural compressibility of cork and the resilience of rubber. Giving high mechanical strength and high compressibility.

Features:

- ☑ A premium quality nitrile rubber bonded cork with excellent resistance to oil and fuels.
- ☑ Nitrile rubber affords the material excellent resistance to transformer oils for use in electrical applications.
- ☑ Conforms to BS F 66

Properties	
Operating Temperature:	Up to 125°C
Shore A Hardness:	70-80°±5
Specific Gravity:	0.70-0.75
Compression (at 400 psi):	25-35%
Recovery:	80%
Tensile Strength:	250 psi (17.2N/mm ²)
Volume Change after immersion in:	
ASTM Oil 1:	-5 + 10%
ASTM Oil 3:	0 + 15%
Fuel A:	-2 + 10%



RUBBER SHEETS

An Elastomer is a polymer with the physical property of elasticity. Elastomer is a term derived from elastic polymer, which is often used interchangeably with the term rubber. Each of the monomers which link to form the polymer is usually made of carbon, hydrogen, oxygen and/or silicon. The elastomers are usually thermosets requiring a curing process of rubber involving heat and the addition of sulfur or other equivalent curatives. In addition, elastomers might also be thermoplastic.

SBR (STYRENE-BUTADIENE)

SBR is a synthetic rubber that has excellent abrasion resistance and has good resistance to weak organic acids, alcohols, moderate chemicals and ketones. It is not good in ozone, strong acids, fats, oils, greases and most hydrocarbons. Its temperature range would be from approximately -55°C to 120°C.

CR (CHLOROPRENE) (NEOPRENE)

Chloroprene is a synthetic rubber that is suitable for use against moderate acids, alkalies and salt solutions. It has good resistance to commercial oils and fuels. It is very poor against strong oxidizing acids, aromatic and chlorinated hydrocarbons. Its temperature range would be from approximately -50°C to 120°C.

BUNA-N-RUBBER (NITRILE, NBR)

Buna-N is a synthetic rubber that has good resistance to oils and solvents, aromatic and aliphatic hydrocarbons, petroleum oils and gasoline over a wide range of temperature. It also has good resistance to caustics and salts but only fair acid resistance. It is poor in strong oxidizing agents, chlorinated hydrocarbons, ketones and esters. It is suitable for a temperature range of approximately -50°C to 120°C.

EPDM (ETHYLENE PROPYLENE)

This synthetic material has good resistance to strong acids, alkalis, salts and chlorine solutions. It is not suitable for use in oils, solvents or aromatic hydrocarbons. Its temperature range would be between -55°C to 180°C.

FLUOROCARBON (VITON)

Fluorocarbon elastomer has a good resistance to oils, fuel, chlorinated solvents, aliphatic and aromatic hydrocarbons and strong acids. It is not suitable for use against amines, esters, ketones or steam. It's normal temperature range would be between -20°C to 230°C.

CHLOROSULFONATED POLYETHELENE (HYPALON)

Hypalon has good acid, alkali and salt resistance. It resists weathering, sunlight, ozone, oils and commercial fuels such as diesel and kerosene. It is not good in aromatics or chlorinated hydrocarbons and has poor resistance against chromic acid and nitric acid. It's normal temperature range would be between -45°C to 135°C.

NATURAL RUBBER

Natural rubber has good resistance to mild acids and alkalis, salts and chlorine solutions. It has poor resistance to oils and solvents and is not recommended for use with ozone. Its temperature range is very limited and is suitable only for use from -55°C to 95°C.

SILICONES

Silicones rubbers have good resistance to hot air. They are unaffected by sunlight and ozone. They are not, however, suitable for use against steam, aliphatic and aromatic hydrocarbons. The temperature range would be between -55°C to 260°C.



MICA SHEET

Mica gasket material is exceptional in its resistance to high temperature. At temperatures, over 480 °C the ideal sealing material Tanged Graphite or flexible graphite cannot be used. Flexible graphite or Tanged Graphite will coke at those elevated temperatures when oxygen is present, where mica gasket material will not (480-1000 °C).

Mica gasket material is an excellent alternative in these high temperature (to 1000 °C) applications. Mica can be very effective in sealing those high temp critical applications without failing due to the presence of oxygen.

Hooman offers a wide range of Mica gasket, each corresponding to specific requirements and designed for a well-defined application. Hooman can assist you in determining which mica gasket material (or other material) corresponds best to your application.

VEGETABLE FIBER SHEET



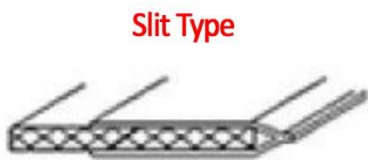
Vegetable fiber sheet is a tough pliable gasket material manufactured by paper making techniques utilizing plant fibers and a glue-glycerine impregnation. It is widely used for sealing petroleum products, gases and a wide variety of solvents. Its maximum temperature limit is 250 F. if a more compressible material is required, a combination cork-fiber sheet is available. The cork-fiber sheet has the same maximum temperature limitation as the vegetable fiber sheet.

ENVELOPE GASKET



Polytetrafluoroethylene (PTFE) envelope gaskets are composite gaskets, consisting of a core material such as CNAF wrapped with a sleeve of PTFE. This hybrid gasket possesses the chemical resistance of PTFE as well as the strength and properties of the core insert material. Superior chemical resistance means that process contamination is prevented, and the highest level of hygiene is maintained. PTFE envelope gaskets are also non-corrosive, non-wetting, non-contaminating and odorless.

There are three basic designs of envelopes:



Slit Type

Sliced from cylinders and split from the outside diameter to within approximately 1/16" of the inside diameter. The bearing surface is determined by the filler dimensions. Clearance is required between the I.D. of the filler and the envelope I.D. The gasket O.D. normally rests within the bolt hole circle and the I.D. is approximately equal to the nominal I.D. of pipe. Available in sizes to a maximum O.D. of 24".

Machined from cylinder stock. The jacket is machined from the O.D. to within approximately 1/32" of the I.D. The jacket I.D. fits flush with pipe bore and the O.D. nests within the bolts. Available in sizes up to a maximum O.D. of 24". Milled envelopes are more expensive than slit type since considerably more material is lost in machining.



Milled Type

Formed Tape Type



Large diameter (over 12" NPS) and irregularly shaped envelopes are formed from tape and heat sealed to produce a continuous jacket construction.



CORRUGATED GRAPHITE TAPE

Corrugated graphite tape (crinkled graphite tape) is made from plain flexible graphite tape pressed under corrugated mold. It designed for use as packing, widely used for pump and valves. It is easily installed for small diameter valves. Corrugated graphite tape with Self-adhesive is used for flange sealing as gasket, specially for large diameter flanges.



GRAPHITE TAPE

It is a braided graphite tape made from pure graphite fibers. This braided tape can be used as a nearly endless sealing tape to seal all flange forms and styles.

The tape could be used in flat-face or raised face flange connections at pressure up to 25 bar. For high pressure applications the tape should be installed in a retaining groove. The packing can be stored in its original packaging for a minimum of 3 years in dry, cool conditions.

PARAMETER

- Temperature: -240 ~ +550 °C
- PH: 0 - 14
- Max. pressure: 100 bar (without wire reinforcement)
200 bar (with wire reinforcement)

PTFE JOINT SEALANT TAPE

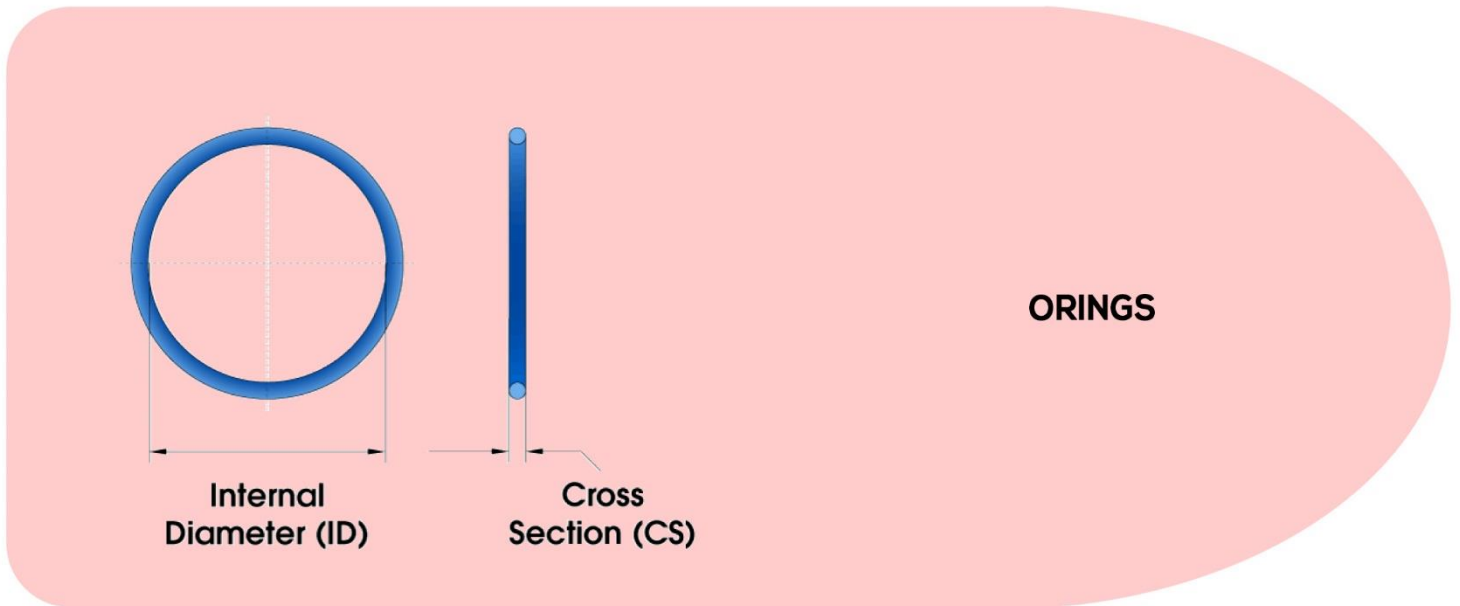


PTFE Joint Sealant Tape is manufactured from %100 expanded PTFE. The material offers good creep and cold flow resistance. A unique process converts PTFE to a micro-porous fibrous structure, resulting a sealant with an unsurpassed combination of mechanical and chemical properties.

The sealant tape is supplied with a self-adhesive strip and is available in a range of widths from 3mm (1/8") to 25mm (1"). It conforms easily to irregular shapes and can be pushed into narrow openings effortlessly.

APPLICATION

- Excellent weathering resistance will not deteriorate with age
- Media: Acids, alkalis, solvents, gases, etc.
- Withstands high pressures – up to 3000 psi
- Wide temperature range from -240 °C to 260 °C
- Effective seal on uneven or damaged surfaces
- Will not contaminate flow products
- Resistant to creep - joints remain leak free
- PH range: 1 - 14
- %100 PTFE - inert and resistant to chemicals and corrosive environments



O-rings are solid-rubber seals that are shaped like a doughnut and are round in nature. O-rings block the passage of liquids or gases when pressed between two mating surfaces. O-rings can form a static or dynamic seal. A static seal is where the O-ring does not move and is used simply for containing pressure or maintaining a vacuum. Dynamic seals can be reciprocating (like a piston and cylinder), or rotating (shaft rotating in a housing).

O-Rings are one of the most common and important elements of machine design. Sizes are specified by the inside diameter and the cross-section diameter (thickness).

Rubber NBR O-Ring Seals

Nitrile (or NBR) O-Rings are most commonly available and are cost effective. Ideal for use as seals on pumps, drive belts, and other general engineering applications.

NBR is good for applications that need to withstand fats, Greases and high temperature (+70 °c). Temperature Range -30° c to +120 °c (avoid prolonged use at higher extremes)

Suitable for: Many hydrocarbons, fats, oils gasoline, petroleum based hydraulic fluid and etc.





Rubber O-Rings Viton ® (FKM)

FKM (Viton ®) O Rings have a low compression set and have high temperature and chemical resistance. More expensive than NBR O-Rings. All of these designations actually stand for one single base material: fluoro rubber. Temperature Range -20 °C to +200 °C (avoid prolonged use at higher extremes)

Rubber O-Rings EPDM

Excellent resistance to weathering and ozone, water and steam, with good performance in castor and some phosphate ester based fluids. It's low and high temperature capability is good, having excellent resistance to set with good resilience.

Recommended temperature range -30 °C to +125°C



Rubber O-Rings Silicone

Silicones possess excellent resistance to temperature extremes. Silicone's retention of properties at high temperatures is superior to other elastic materials. Silicone has poor tensile strength, tear resistance and abrasion resistance. Temperature Range:

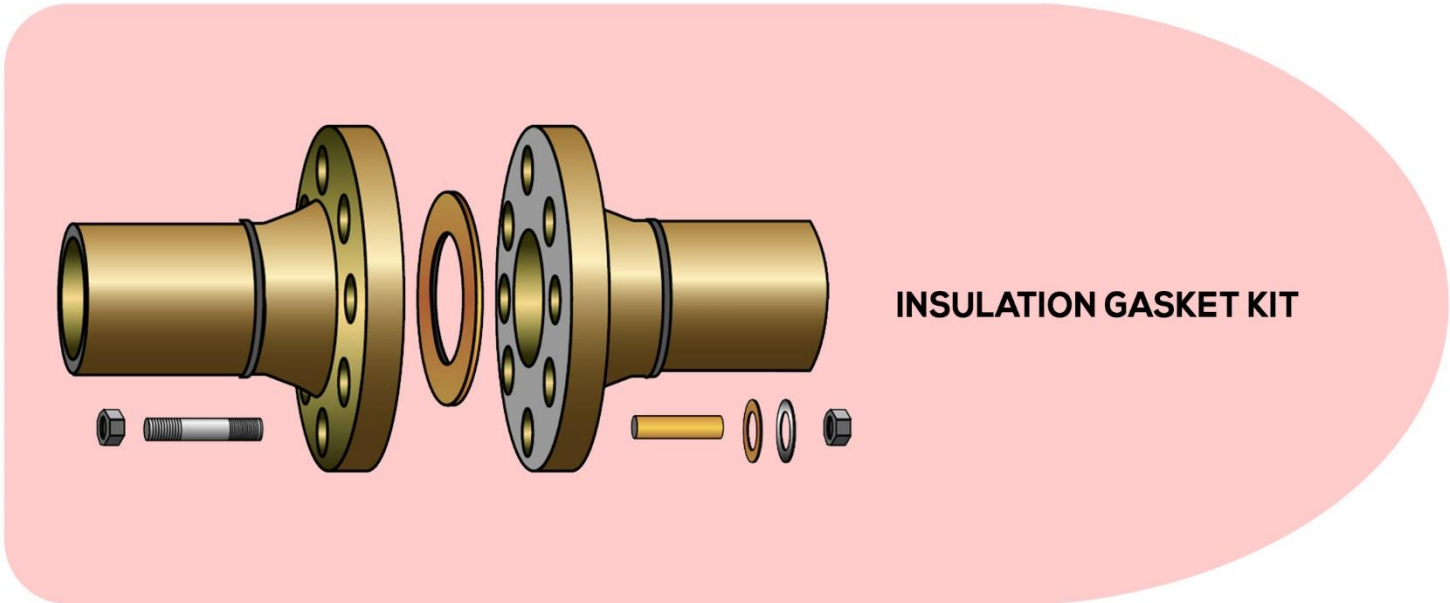
- Up to 200°C (Intermittant)
- Down to -60°C



PTFE O-rings

PTFE O-Rings have an excellent resistance to almost all chemicals including acids, bases, oils, steam and many other chemicals. The material is very tough and abrasion resistant. PTFE also has a wide temperature range from -200°C up to +260°C (intermittent).





Flange Insulation Gasket Kits are designed to maintain the integrity and reliability of the pipeline and piping system through safety and corrosion protection. Flange Insulation Gasket Kits provide an effective seal and electrical insulation of flanges. By eliminating metal to metal contact, static current is halted to prevent corrosion and aid in the cathodic protection of the pipe. Construction of high quality materials that have a high dielectric constant and low water absorption, Flange Insulation sets also are available for ASME B16.21 and etc.

There are three styles of insulation gasket kits available to suit raised faced, flat face and ring grooved flanges.

AVAILABLE GASKET MATERIAL

- NEOPRENE FACED PHELONIC

Neoprene faced phenolic gaskets have long been used as standard insulating gasket in the gas and oil industries because the soft neoprene rubber provides good sealing qualities. In these gaskets neoprene sheets are factory bonded to both side of laminate phenolic sheet to give good sealing qualities and high electrical resistance.

- PLAIN PHENOLIC

Plain phenolic gaskets are manufactured from laminated phenolic material, which provide insulation between the flange faces. They are less expensive than faced gaskets and can be used in temperatures up to 1200 °C.

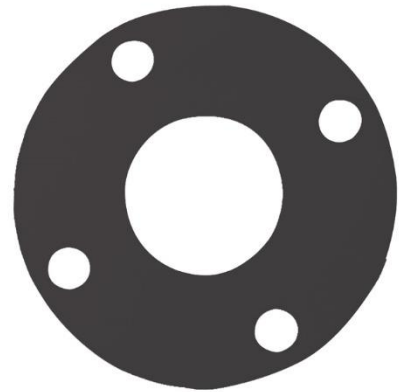
Type F Gasket Kit

Type F "Raised Face" gaskets will fit only on the raised face surface of the flanges. The outside diameter of an F style gasket is slightly less than the inside diameter of the bolt circle. F type gaskets can be used on both raised face and full face flanges. It is recommended that the flanges be wrapped with Flange Band Protectors available from Drake Specialties or a similar device to prevent foreign material from collecting and creating a bridge, thus shorting out the cathodic insulation. Type F gaskets are available in phenolic, neoprene-faced phenolic, and high temperature materials.



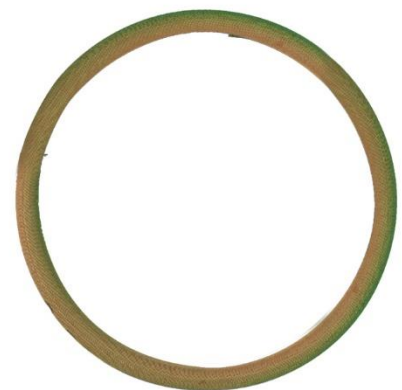
Type E GASKET KIT

Our Type E "Full Face" Gasket style kit contains a full-face gasket that has the same outside diameter as the flanges. This style of gasket will prevent foreign material from collecting and creating a bridge in the flange which would short out the cathodic insulation. Type E gaskets are available in phenolic, neoprene-faced phenolic and high temperature materials



TYPE D GASKET KIT (RTJ Type)

RTJ is specifically designed to fit into the ring type joint flange. They are manufactured of a medium weave; fabric reinforced phenolic material and is sized to ANSI specification available in basic oval or octagonal shape





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