



Italian Fasteners & Gaskets Manufacturing Company

GASKETS & SEALINGS PRODUCT CATALOGUE

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SEALING GASKETS

Seal the Deal with Our High-Quality Gasket Products - Keeping Your Machinery Running Smoothly

PRESSBOLT GASKETS

A mechanical seal which fills the space between two or more mating surfaces, generally to prevent leakage from or into the joined objects while under compression. It is a deformable material that is used to create a static seal and maintain that seal under various operating conditions in a mechanical assembly.

Gaskets allow for "less-than-perfect" mating surfaces on machine parts where they can fill irregularities. Gaskets are commonly produced by cutting from sheet materials for Spiral wound gaskets and Solid metal for RTJ Types. Given the potential cost and safety implications of faulty or leaking gaskets, it is critical that the correct gasket material is selected to fit the needs of the application.

Gaskets for specific applications, such as high pressure steam systems, may contain asbestos. However, due to health hazards associated with asbestos exposure, non-asbestos gasket materials are used when practical.

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WHY GASKET

Gaskets are commonly used in industry to seal boilers, pipes and fuel tanks. Off-shore oil and gas pipelines use ring gaskets as seals. They are chosen because their solid metal construction can operate under extremely high pressure.

The chemicals industry makes use of sheet gaskets to seal for pipes and tanks. Made from synthetic rubber, the gaskets are 'punched' out of a sheet of material.

Gasket is sealing material placed between connecting flanges to create a static seal. The primary function of gaskets is to seal the irregularities of each face of the flange so that there will be no leakage of the service fluid from the flange joint.

There are three types of gaskets used in process piping:

Non-Metallic

Metallic

Composite

Certain Advantages are:

- No complex designs
- Easy to manufacture
- Easy availability of raw materials
- More demand in the local market

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SPIRAL WOUND GASKETS

Available Materials Winding Strip:

Stainless steel 304, 316L, 321, Monel, Titanium, Inconel625, HastelloyC276, Incoloy825

Filler material:

Flexible Graphite, PTFE, Mica



Spiral wound gaskets have the ability to recover under the action of fluctuating loads caused by the process fluid pressure and temperature changes, flange face temperature variations, flange rotation, bolt stress relaxation and creep. The gasket sealing element consist of a pre-formed metallic winding strip with layers of a softer, more compressible sealing material which, during compression, is densified and flows to fill imperfections in the flange surfaces. The metal strip holds the filler giving the gasket mechanical resistance and resilience. The dimensional requirements of spiral wound gaskets are provided in ASME B16.20. These gaskets are widely used in piping and pressure vessel flange connections, in medium to high pressure and temperature duties.

TYPES OF SPIRAL WOUND GASKETS

Type R have wide range of materials for filler and metallic strip. They are stand alone sealing element where the ID is reinforced with several layers of metal winding, filler material is the introduced to offer greater sealing ability. Widely used in tongue to groove, male to female and flat face to recess in vessels, valves and pumps.

Type CR have a solid metal outer ring used as a centering device and compression stop. They are mainly used on raised face and flat face flanges. The centering ring is designed to guide the gasket on a bolted flange and provide radial strength.

Type RIR are same as type R except that solid inner ring is used to prevent over compression. They have high pressure and high temperature capability and used in male to female flanges in vessels, valves and pumps. The design is also helpful in turbulent applications.

Type CRIR have solid metal inner and outer rings and are best suited for high pressure and high temperature applications. These gaskets prevents turbulence and erosion damage to flanges and prevent damage to the gasket bore and inner windings. The inner ring act as a heat shield and corrosion barrier and eliminate the inward buckling of the sealing element.

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Winding Pipes Under 24" ASME B16.5 & BS 1560 Flanges

Nom. Pipe	Male and Female				Large Tongue Groove		Small Tongue and Groove	
	Sealing Element 150-1500		Sealing Element Class 2500		Sealing Element Class 2500		Sealing Element 150-2500	
Size	I.D	O.D	I.D	O.D	I.D	O.D	I.D	O.D
1/4	1/2	1	-	-	1/2	1	-	-
1/2	1	1-3/8	13-16	1-3/8	1	1-3/8	1	1-3/8
3/4	1-5/16	1-11/16	1-1/16	1-11/19	1-5/16	1-11/16	1-5/16	1-11/16
1	1-1/2	2	1-1/4	2	1-1/2	2	1-1/2	1-7/8
1-1/4	1-7/8	2-1/2	1-5/8	2-1/2	1-7/8	2-1/2	1-7/8	2-1/4
1-1/2	2-1/8	2-7/8	1-7/8	2-7/8	2-1/8	2-7/8	2-1/8	2-1/2
2	2-7/8	3-5/8	2-3/8	3-5/8	2-7/8	3-5/8	2-7/8	3-1/4
2-1/2	3-3/8	4-1/8	3	4-1/8	3-3/8	4-1/8	3-3/8	3-3/4
3	4-1/4	5	3-3/4	5	4-1/8	5	4-1/4	4-5/8
3-1/2	4-3/4	5-1/2	-	-	4-3/4	5-1/2	4-3/4	5-1/8
4	5-3/16	6-3/16	4-3/4	6-3/16	5-3/16	6-3/16	5-3/16	5-11/16
4-1/2	5-11/16	6-3/4	-	-	5-11/16	6-3/4	-	-
5	6-5/16	7-5/16	5-3/4	7-5/16	6-5/16	7-5/16	6-5/16	6-13/16
6	7-1/2	8-1/2	6-3/4	8-1/2	7-1/2	8-1/2	7-1/2	8
8	9-3/8	10-5/8	8-3/4	10-5/8	9-3/8	10-5/8	9-3/8	10
10	11-1/4	12-3/4	10-3/4	12-3/4	11-1/4	12-3/4	11-1/4	12
12	13-1/2	15	13	15	13-1/2	15	13-1/2	14-1/4
14	14-3/4	16-1/4	-	-	14-3/4	16-1/4	14-3/4	15-1/2
16	17	18-1/2	-	-	17	18-1/2	16-3/4	17-5/8
18	19-1/4	21	-	-	19-1/4	21	19-1/4	20-1/8
20	21	23	-	-	21	23	21	22

Small Tongue and Groove Flanges:
Classes 300 thru 2500 are interchangeable within their specific size category.
¾ size are interchangeable within their Male & Female and Larger Tongue and Groove gaskets

Male & Female and Large Tongue & Groove Flanges: Class 300,400,600 gaskets are interchangeable within their size category.
Class 900 and 1500 gaskets are interchangeable within their size category.

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Winding with centering Ring Pipes under 24" ASME B16.20 for ASME B16.5 Flanges

Nom Pipe Size	Inside Diameter of Sealing Element							OD of Sealing Element		Outer Diameter of Centering Ring						
	150	300	400	600	900	1500	2500	150, 300, 400, 600	900, 1500, 2500	150	300	400	600	900	1500	2500
1/4	1/2	1/2	1/2	1/2	-	-	-	7/8	-	1-3/4	1-3/4	1-3/4	1-3/4	-	-	-
1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1-1/4	1-1/4	1-7/8	2-1/8	2-1/8	2-1/8	2-1/2	2-1/2	2-3/4
3/4	1	1	1	1	1	1	1	1-9/16	1-9/16	2-1/4	2-5/8	2-5/8	2-5/8	2-3/4	2-3/4	3
1	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-7/8	1-7/8	2-5/8	2-7/8	2-7/8	2-7/8	3-1/8	3-1/8	3-3/8
1-1/4	1-7/8	1-7/8	1-7/8	1-7/8	1-9/16	1-9/16	1-9/16	2-3/8	2-3/8	3	3-1/4	3-1/4	3-1/4	3-1/2	3-1/2	4-1/8
1-1/2	2-1/8	2-1/8	2-1/8	2-1/8	1-7/8	1-7/8	1-7/8	2-3/4	2-3/4	3-3/8	3-3/4	3-3/4	3-3/4	3-7/8	3-7/8	4-5/8
2	2-3/4	2-3/4	2-3/4	2-3/4	2-5/16	2-5/16	2-5/16	3-3/8	3-3/8	4-1/8	4-3/8	4-3/8	4-3/8	5-5/8	5-5/8	5-3/4
2-1/2	3-1/4	3-1/4	3-1/4	3-1/4	2-3/4	2-3/4	2-3/4	3-7/8	3-7/8	4-7/8	5-1/8	5-1/8	5-1/8	6-1/2	6-1/2	6-5/8
3	4	4	4	4	3-3/4	3-5/8	3-5/8	4-3/4	4-3/4	5-3/8	5-7/8	5-7/8	5-7/8	6-5/8	6-7/8	7-3/4
3-1/2	4-1/2	4-1/2	4-1/8	4-1/8	4-1/8	4-1/8	-	5-1/4	5-1/4	6-3/8	6-1/2	6-3/8	6-3/8	7-1/2	7-3/8	-
4	5	5	4-3/4	4-3/4	4-3/4	4-5/8	4-5/8	5-7/8	5-7/8	6-7/8	7-1/8	7	7-5/8	8-1/8	8-1/4	9-1/4
4-1/2	5-1/2	5-1/2	5-5/16	5-5/16	5-5/16	5-5/16	-	6-1/2	6-1/2	7	7-3/4	7-5/8	8-1/4	9-3/8	9-1/8	-
5	6-1/8	6-1/8	5-13/16	5-13/16	5-13/16	5-5/8	5-5/8	7	7	7-3/4	8-1/2	8-3/8	9-1/2	9-3/4	10	11
6	7-3/16	7-3/16	6-7/8	6-7/8	6-7/8	6-3/4	6-3/4	8-1/4	8-1/4	8-3/4	9-7/8	9-3/4	10-1/2	11-3/8	11-1/8	12-1/2
8	9-3/16	9-3/16	8-7/8	8-7/8	8-3/4	8-1/2	8-1/2	10-3/8	10-1/8	11	12-1/8	12	12-5/8	14-1/8	13-7/8	15-1/4
10	11-5/16	11-5/16	10-13/16	10-13/16	10-7/8	10-1/2	10-5/8	12-1/2	12-1/4	13-3/8	14-1/4	14-1/8	15-3/4	17-1/8	17-1/8	18-3/4
12	13-3/8	13-3/8	12-7/8	12-7/8	12-3/4	12-3/4	12-1/2	14-3/4	14-1/2	16-1/8	16-5/8	16-1/2	18	19-5/8	20-1/2	21-5/8
14	14-5/8	14-5/8	14-1/4	14-1/4	14	14-1/4	-	16	15-3/4	17-3/4	19-1/8	19	19-3/8	20-1/2	22-3/4	-
16	16-5/8	16-5/8	16-1/4	16-1/4	16-1/4	16	-	18-1/4	18	20-1/4	21-1/4	21-1/8	22-1/4	22-5/8	25-1/4	-
18	18-11/16	18-11/16	18-1/4	18-1/4	18-1/4	18-1/4	-	20-3/4	20-1/2	21-5/8	23-1/2	23-3/8	24-1/8	25-1/8	27-3/4	-
20	20-11/16	20-11/16	20-1/2	20-1/2	20-1/2	20-1/4	-	22-3/4	22-1/2	23-7/8	25-3/4	25-1/2	26-7/8	27-1/2	29-3/4	-
24	24-3/4	24-3/4	24-3/4	24-3/4	24-3/4	24-1/4	-	27	26-3/4	28-1/4	30-1/2	30-1/4	31-1/8	33	35-1/2	-

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Inner Ring Dimensions Pipes Under 24"

Nom. Pipe size	PRESSURE CLASS						
	150	300	400	600	900	1500	2500
1/2	0.56	0.56	0.56	0.56	0.56	0.56	0.56
3/4	0.81	0.81	0.81	0.81	0.81	0.81	0.81
1	1.06	1.06	1.06	1.06	1.06	1.06	1.06
1-1/4	1.50	1.50	1.50	1.50	1.31	1.31	1.31
1-1/2	1.75	1.75	1.75	1.75	1.63	1.63	1.63
2	2.19	2.19	2.19	2.19	2.06	2.06	2.06
2-1/2	2.62	2.62	2.62	2.62	2.50	2.50	2.50
3	3.19	3.19	3.19	3.19	3.10	3.10	3.10
4	4.19	4.19	4.04	4.04	4.04	3.85	3.85
5	5.19	5.19	5.05	5.05	5.05	4.90	4.90
6	6.19	6.19	6.10	6.10	6.10	5.80	5.80
8	8.50	8.50	8.10	8.10	7.75	7.75	7.75
10	10.56	10.56	10.05	10.05	9.69	9.69	9.69
12	12.50	12.50	12.10	12.10	11.50	11.50	11.50
14	13.75	13.75	13.50	13.50	12.63	12.63	-
16	15.75	15.75	15.35	15.35	14.75	14.50	-
18	17.69	17.69	17.25	17.25	16.75	16.75	-
20	19.69	19.69	19.25	19.25	19.00	18.75	-
24	23.75	23.75	23.25	23.25	23.25	22.75	-

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SPIRAL WOUND GASKET COLOR CHART

WINDINGS MATERIAL - OUTSIDE RIM COLOR

304 SS		YELLOW
316 SS		GREEN
321 SS		TURQUOISE
347 SS		BLUE
ALLOY 20		BLACK
CARBON STEEL		SILVER
HASTELLOY B		BROWN
HASTELLOY C		BEIGE
INCONEL		GOLD
MONEL		ORANGE
NICKEL		RED
TITANIUM		PURPLE

FILLER MATERIAL - RIM STRIPE COLOR

MICA PAPER		PINK
GRAPHITE		GREY
PTFE		WHITE
CERAMIC		LIGHT GREEN

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RING JOINT GASKET

Available Materials:

Stainless Steel - 304, 316L, 321, Inconel 625, Hast Alloy C276

Incoloy 825, Soft Iron, Low Carbon Steel and as per customer requirements.



Ring Joint Gaskets are precision machined metallic sealing rings with dimensions in accordance to ASTM B16.20, API 6A and ASME B16.5/16.20

Ring Joint Gaskets are suitable for high temperature and high pressure applications

Ring Joint Gaskets are available in several common profiles to suit variety of industry standard flanges.

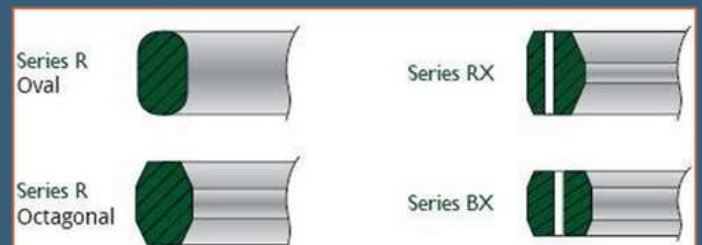
TYPES OF RTJ GASKETS

Type R Series: R series ring type joint gaskets are available in oval and octagonal shape. Both types are interchangeable on modern octagonal type grooved flanges.

R series are available up to 5,000 psi.

Type RX Series: RX series ring type joint gaskets are interchangeable with R series in situations that have high pressure with more intense vibrations.

Type BX Series: BX Series ring type joint gaskets are pressure gaskets manufactured and designed for use up to 20,000 psi.



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Type R – Series

CLASS RATING							
PIPESIZE	150	300	400	600	900	1500	2500
1/2	-	R11	-	R11	R12	R12	R13
3/4	-	R13	-	R13	R14	R14	R16
1	R15	R16	-	R16	R16	R16	R18
1-1/4	R17	R18	-	R18	R18	R18	R21
1-1/2	R19	R/RX20	-	R/RX20	R/RX20	R/RX20	R/RX23
2	R22	R/RX23	-	R/RX23	R/RX24	R/RX24	R/RX26
2-1/2	R/RX25	R/RX26	-	R/RX26	R/RX27	R/RX27	R28
3	R29	R/RX31	-	R/RX31	R/RX31	R/RX35	R32
3-1/2	R33	R34	-	R34	-	-	-
4	R36	R/RX37	R/RX37	R/RX37	R/RX37	R/RX39	R38
5	R40	R/RX41	R/RX41	R/RX41	R/RX41	R/RX44	R42
6	R43	R/RX45	R/RX45	R/RX45	R/RX45	R/RX46	R/RX47
8	R48	R/RX49	R/RX49	R/RX49	R/RX49	R/RX50	R51
10	R52	R/RX53	R/RX53	R/RX53	R/RX53	R/RX54	R55
12	R56	R/RX57	R/RX57	R/RX57	R/RX57	R58	R60
14	R59	R61	R61	R61	R62	R/RX63	-
16	R64	R/RX65	R/RX65	R/RX65	R/RX	R67	-
18	R68	R/RX69	R/RX69	R/RX69	R/RX	R71	-
20	R72	R/RX73	R/RX73	R/RX73	R/RX	R75	-
24	R76	R77	R77	R77	R	R79	-

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Type R and RX (For flanges in accordance with API spec 6A, model 6B)

RING NUMBER AT CLASS RATING			
PIPE SIZE	2000	3000	5000
2-1/6	R/RX23	R/RX24	R/RX24
2-9/16	R/RX26	R/RX27	R/RX27
3-1/8	R/RX31	R/RX31	R/RX35
4-1/16	R/RX37	R/RX37	R/RX39
5-1/8	R/RX41	R/RX41	R/RX44
7-1/16	R/RX45	R/RX45	R/RX46
9	R/RX49	R/RX49	R/RX50
11	R/RX53	R/RX53	R/RX54
13-5/8	R/RX57	R/RX57	-
16-3/4	R/RX65	R/RX66	-
20-3/4	-	R/RX74	-
21-1/4	R/RX73	-	-

Type R or RX (For flanges in accordance with ASME B16.47 series A)

RING NUMBER AT CLASS RATING		
PIPE SIZE	300-600	900
26	R93	R100
28	R94	R101
30	R95	R102
32	R96	R103
34	R97	R104
36	R98	R105

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Type BX Series

PIPE SIZE	RING NUMBER AT PRESSURE RATING (PSI)					
	2000	3000	5000	10000	15000	20000
1-11/16	-	-	-	BX150	BX150	-
1-13/16	-	-	-	BX151	BX151	BX151
2-1/16	-	-	-	BX152	BX152	BX152
2-9/16	-	-	-	BX153	BX153	BX153
3-1/16	-	-	-	BX154	BX154	BX154
4-1/16	-	-	-	BX155	BX155	BX155
5-1/8	-	-	-	BX169	BX169	-
7-1/16	-	-	-	BX156	BX156	BX156
9	-	-	-	BX157	BX157	BX157
11	-	-	-	BX158	BX158	BX158
13-5/8	-	-	BX160	BX159	BX159	BX159
16-3/4	-	-	BX162	BX162	-	-
18-3/4	-	-	BX163	BX164	BX164	-
21-1/4	-	-	BX165	BX166	-	-
26-3/4	BX167	BX168	-	-	-	-
30	BX303	BX303	-	-	-	-

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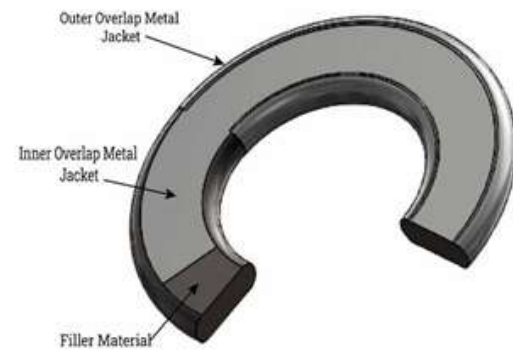
DOUBLE JACKETED GASKETS

Available Materials Outer Shell:

Stainless Steel 304, 316L, 321, 347, 410, Inconel, duplex, Soft Iron, Carbon Steel, PTPE, 4-6 Chrome 1/2 Mo

Filler Material:

Nickel, Aluminum, Brass, Copper, Ceramic, Expanded, Graphite, Non-Asbestos



Double Jacketed gaskets consist of a metallic outer shell with either a metallic compressed filler or a non-metallic compressed filler material.

The filler material gives the gasket resilience, while the metal shell jacket protects the filler and resists pressure, temperature and corrosion.

These gaskets are suitable for use in Boilers, Heat Exchangers, Apparatus Construction, Pumps and valve, narrow surface sealing and applications where high temperature gas is the fluid.

These gaskets increase the stability of the joint and reduce its strength and offer high chemical resistance at wide range of fluids.

Features

- - Over 60" in diameter available
- - Can be used for temperature above 1000F
- - Different construction types offered to maximize resiliency
- - Standard thickness and pass bar designs are available
- - Flexible design allows for pass partitions in heat exchangers
- Relatively quick turnaround for even the most customized gaskets

Other Types of available Jacketed gaskets

- **Single Jacketed Gaskets:** The filler material is enclosed in a metal jacket, which covers the inside and outside diameter of gasket.
- **French-Type Jacketed Gaskets:** The filler material is enclosed in a metal jacket, which covers the diameter of the gasket and completely covers the sealing faces on both sides.
- **Solid Corrugated Metal Gaskets:** This is comprised solely of metal and does not contain any non-metallic fillers in its construction.



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Jacketed Gasket Dimension to ASME B16.20 (Used with ASME/ANSI B16.5 flanges)

Nom. Pipe Size	Inner Diameter (mm)	Outer Diameter (mm)						
		Class Rating						
		150	300	400	600	900	1500	2500
1/2	23.8	44.5	50.8	50.8	50.8	60.4	60.4	66.8
3/4	31.8	54.0	63.5	63.5	63.5	66.7	66.7	73.1
1	36.5	63.5	69.9	69.9	69.9	76.2	76.2	82.5
1-1/4	46.0	73.0	79.4	79.4	79.4	85.8	85.8	101.6
1-1/2	52.4	82.6	92.1	92.1	92.1	95.3	95.3	114.3
2	73.2	101.6	108.0	108.0	108.0	139.7	139.7	143.0
2-1/2	85.9	120.6	127.0	127.0	127.0	161.9	161.9	165.1
3	107.8	133.4	146.1	146.1	146.1	165.1	171.5	193.8
4	131.8	171.5	177.8	174.1	190.5	203.2	206.5	231.9
5	152.4	193.8	212.8	209.5	238.2	244.6	250.9	276.3
6	190.5	219.1	247.7	244.5	263.6	285.8	279.4	314.5
8	238.3	276.3	304.8	301.7	317.5	355.6	349.3	384.3
10	285.8	336.6	358.8	355.6	396.9	431.8	431.8	473.2
12	342.9	406.4	419.1	415.9	454.1	495.3	517.6	546.1
14	374.7	447.7	482.6	479.5	489.0	517.6	574.7	-
16	425.5	511.2	536.6	533.4	562.0	571.5	638.2	-
18	489.0	546.1	593.7	590.6	609.6	635.0	701.8	-
20	533.4	603.3	650.9	644.5	679.5	695.5	752.5	-
24	641.4	714.4	771.6	765.3	787.4	835.1	898.6	-

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Jacketed Gasket Dimension to ASME B16.20 (Used with ASME/ANSI B16.47 Series A flanges)

Nom. Pipe Size	Inner Diameter (mm)	Outside Diameter (mm)				
		CLASS RATING				
		150	300	400	600	900
26	673.1	771.6	831.8	828.8	863.6	879.6
28	723.9	828.8	895.3	889.0	911.3	943.1
30	774.7	879.6	949.4	943.1	968.5	1006.6
32	825.5	836.7	1003.3	1000.2	1019.3	1070.1
34	876.3	987.5	1054.1	1051.0	1070.1	1133.6
36	927.1	1044.7	1114.5	1114.5	1127.2	1197.1
38	977.9	1108.2	1051.0	1070.1	1101.8	1197.1
40	1028.7	1159.0	1111.2	1124.0	1152.6	1124.0
42	1079.5	1286.1	1162.0	1174.7	1216.1	1298.7
44	1130.3	1273.3	1216.1	1228.8	1267.0	1365.2
46	1181.1	1324.1	1270.0	1286.0	1324.1	1432.0
48	1231.9	1381.2	1320.8	1343.1	1387.6	1482.8
50	1282.7	1432.0	1374.9	1400.3	1444.7	-
52	1333.5	1489.2	1425.7	1451.1	1495.5	-
54	1384.3	1546.3	1489.2	1514.6	1552.7	-
56	1435.1	1603.5	1540.0	1565.4	1603.5	-
58	1485.9	1660.6	1590.8	1616.2	1660.6	-
60	1535.7	1711.4	1641.6	1679.7	1730.5	-

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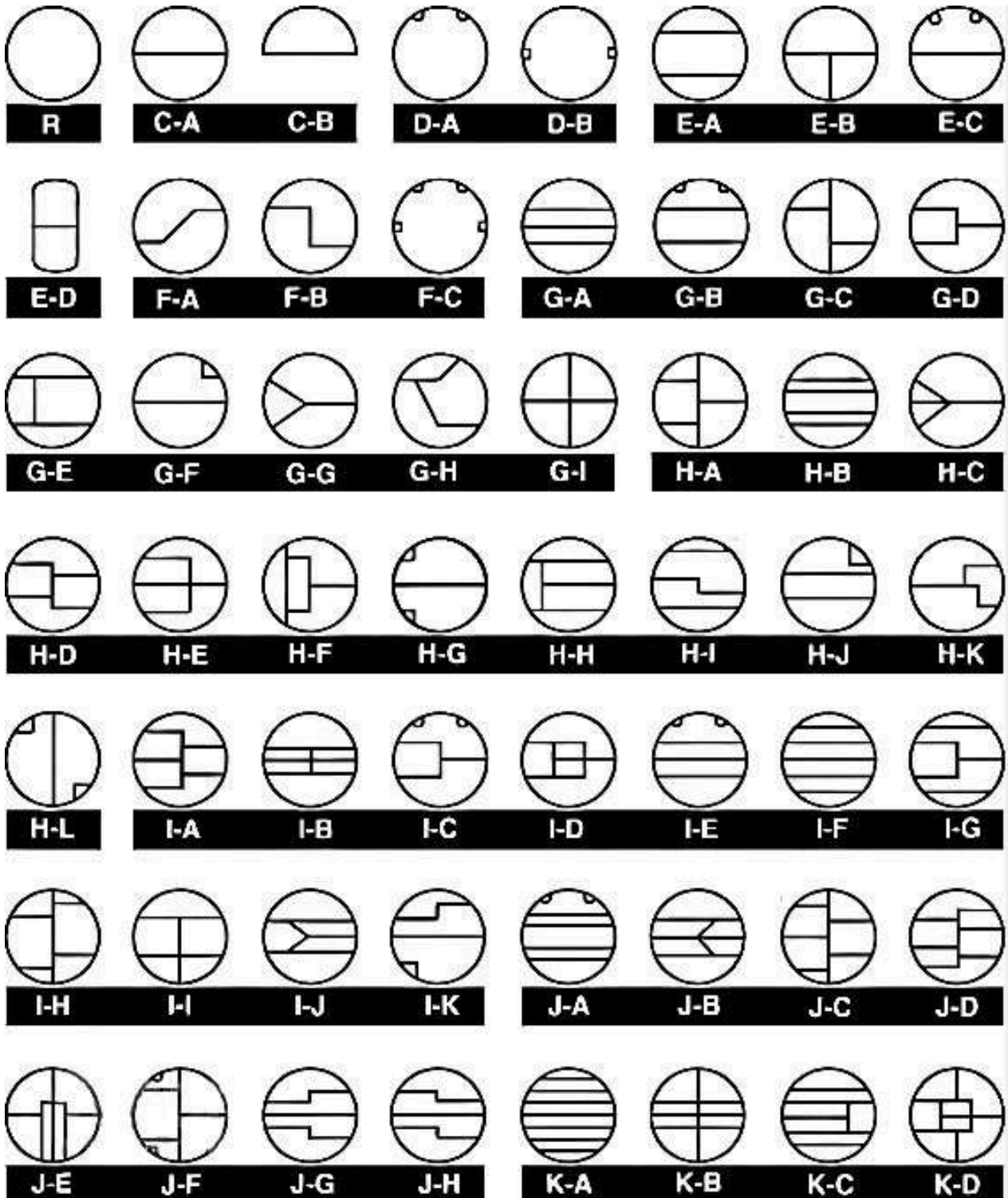
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STANDARD HEAT EXCHANGER GASKETS CONFIGURATION



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INSULATION KIT GASKETS

Available Materials Gasket:

Nitrile-Face, G3, G7, G10, Phenolic, Teflon, Neoprene, Durlon

Sleeve: Phenoloc, Mylar, Polyethylene, Minlon, Nomex

Washer: G3, G7, G10 Steel, Phenoloc



Insulation kit gaskets are manufactured from material with high compressibility strength and high stability that helps in preventing stray currents which causes corrosion.

Manufactured from materials with high dielectric strength, low water absorption and chemical stability.

Insulation kits are used to seal pipelines and guaranteed safe flow of fluids through pipeline systems.

They offer quicker and cheaper alternative isolation joints and require little maintenance.

They are manufactured in accordance with ANSI B16.5 specifications for sizes up to 24”.

Types Of Insulation kit Gaskets

•**Type E Gasket** – These gaskets are full faced and extends to the outside diameter of the flange. It has holes that automatically center it on installation, and offers good protection against foreign objects shorting out of the flange.

•**Type F Gasket** – These gaskets are raised faced and extends to the inside diameter of the bolt circle. As it sits just inside the bolt circle, it will automatically center itself on installation.

•**Type D Gasket**– These gaskets are designed to fit the ring groove of a RTJ flange.

Sleeves: The length of sleeve must take into account the thickness of the gasket and must not be too short or too long. If it is too short, it fails to protect the bolts, and if too long it could cause problems or break during tension. Sleeves are the best solution for reliability, resistance to aging and insulating capacity.

Washers: The Insulating washers are used to electrically isolate the bolts from other metal parts of the system. The insulating washer material should have higher resistance to compression which have an important impact on the performance of the insulating kit.

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NON-METALLIC GASKETS

Available Materials Gasket:

Nitrile-Face, G3, G7, G10, Phenolic, Teflon, Neoprene, Durlon

Sleeve: Phenoloc, Mylar, Polyethylene, Minlon, Nomex

Washer: G3, G7, G10Steel, Phenoloc



- **EPDM material** is a type of synthetic rubber having excellent resistance to Heat, Ozone, UV, Sunlight, Water & Steam, good flexibility at low temperatures, good abrasion resistance, provides excellent sealing capability for Gases and liquids and provide excellent chemical resistance and good electrical properties.

- EPDM gaskets available in Raised face and full face specifications and can be manufactured as per customer requirements.

- Operating Temperature Range:
-200C to 1000C

COMPRESSED NON-ASBESTOS GASKETS

- Nitrile bound non-asbestos material with good torque retention and excellent creep resistance.
- These gaskets provides good resistance to oil, solvents and many other media and have good anti-stick properties.
- Typical Tensile strength is above 1500 PSI.

TEMPERATURE LIMIT
Maximum – 750OF
Continuous Maximum – 4600F PRESSURE LIMIT
Maximum – 1595 PSI
Continuous Maximum – 725 PSI

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NON-METALLIC GASKETS

MODIFIED PTFE



·Is a plastic with the lowest coefficient of friction and can resist very high temperatures of up to 260°C. It is the ideal sealant for less even flanges. Different materials are combined with PTFE powder which serves as a filling and which improves the quality of the gasket. For example: a silica filling, barium sulphate or a full PTFE core with a soft microcell of expanded PTFE.

·Modified PTFE gaskets are resistant to almost any chemical and able to withstand strong acids and alkalis. As a result, these gaskets are put to highly versatile use in the (petro-)chemical industry, the food industry and the pharmaceutical industry, but also in drinking water installations.

PURE GRAPHITE



·Pure graphite gaskets are widely used in all industrial sectors. They are among others found wherever enormously high temperatures can also be found or substances that are distinguished by a special aggressiveness. Pure graphite gaskets are thus especially deployed in the manufacture of pumps and / or exhaust systems.

The mutability of these gaskets particularly makes them attractive for many areas. Pure graphite gaskets can for example be supplemented with stainless steel flaps or be impregnated with PTFE or copper, in order to achieve better results and an optimal application. but also in drinking water installations

·This includes the use of graphite foil, which makes it possible not to sacrifice the sealing quality even in the case of temperatures that exceed 450 °C.

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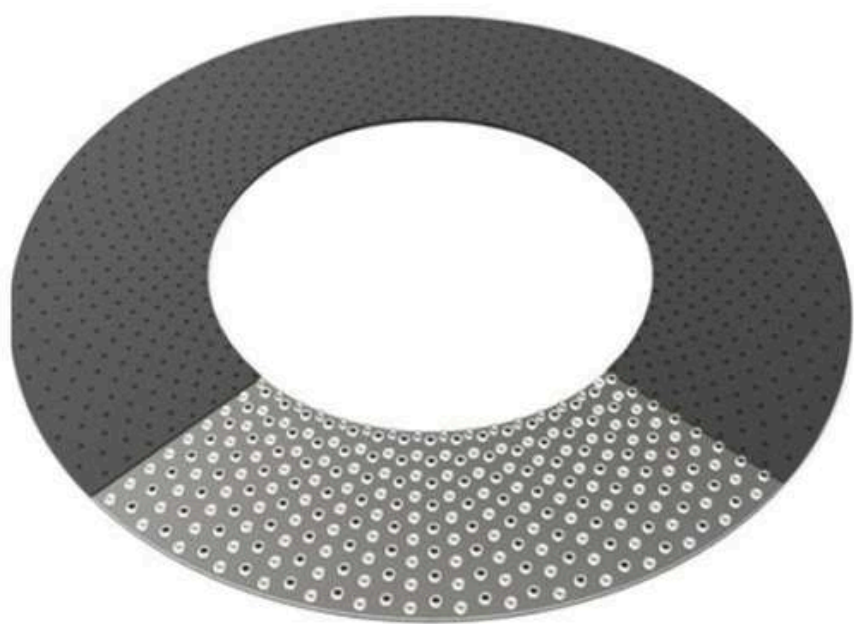
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Non Metallic Gaskets and Compressed Non-Asbestos Fibre



TANGED REINFORCED GRAPHITE

Tanged graphite gaskets range of graphite sheet sealing materials are manufactured from highly pure exfoliated graphite flake, with/without a reinforcing metallic core with the standard product offering graphite with a carbon content of 98% while for nuclear purposes its 99.85%.

·These gaskets are used in demanding industries such as petrochemical/refining industries as a result of absence of any rubber or polymeric binders making their stress retention levels high. This in turn ensures that the gasket stress applied upon assembly is retained during service.

·Various reinforce used are SS 304, SS316, SS321, SS341 and etc.

CNAF Gaskets/NAF (Non-Asbestos Fibre Gaskets)

CNAF gaskets are made from sheet material where the fibres are combined with a rubber binder which is normally Nitrile, EPDM, Neoprene or SBR. It is important to select the right grade, as unlike asbestos, CNAF materials have different chemical resistance and temperature ratings dependent on the grade.

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**next sheets are
flyers and data
sheets**

SPIRAL WOUND GASKETS WITH VERMICULITE FILLER

PRESSBOLT GASKETS

PB835 is a kind of Vermiculite filling Spiral Wound Gaskets. It's a critical service gasket designed for use in applications involving high temperature and/or aggressive chemical media. PB835 is comprised of a spirally wound sealing element composed of a metal winding wire in combination with a vermiculite-based filler material



Maximum Recommended Temperature:
980 Deg Centigrade (1,800 Fahrenheit Deg)

Minimum Recommended Temperature:
-240 Deg Centigrade (-400 Fahrenheit Deg)

Pressure:
431 Bars (6,251.14PSI)

Media:
Hazardous

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Typical Physical Properties of Vermiculite filler:

Item	Unit	Result
Vermiculite Content	%	95
Density	g/cm ³	1.2~1.3
Elastomeric Binder	%	5
Tensile Strength	Mpa	4.35
Leachable Chloride Ion Content	ppm	<50
Leachable Fluoride Ion Content	ppm	<50

PB835 Vermiculite filler is cutting from the Vermiculite sheets which made of expanded vermiculite and a certain amount of adhesive throughout or cold pressing.

Advantage:

1. 100% asbestos free;
2. High temperature and high expanding capacity.
3. Heat Insulation, Frost resistance, Fire Prevention, Sound absorption & Water absorption. (HFFS)

Application & Preparations:

Suitable	Specialties
Strong Acids	Highly compressible
Caustics, Hydrocarbons	Can fill flange surface irregularities
Cryogenics	Low creep and cold flow
Glass lined equipment	High bolt torque retention property
Low bolt load FRP GRP flanges	Easily compressed under lower loads
Food Industry	Chemically inert
Refrigerants	Long shelf life

Physical Properties:

Specific Gravity	ASTM D 792	0.65~1.0 g/cm ³
Compressibility	ASTM F36	70~80%
Recovery	ASTM F36	8%
Creep Relaxation	ASTM F38	10%
Gas Permeability (cc/min)		< 0.015
Dielectric Strength	F149	250 Volt/mil

Material Performance:

Item	Unit	Result
Vermiculite Content	%	95
Density	g/cm ³	1.2~1.3
Elastomeric Binder	%	5
Tensile Strength	Mpa	4.35
Leachable Chloride Ion Content	ppm	<50
Leachable Fluoride Ion Content	ppm	<50

Operating Conditions:

Minimum Temperature	°C/°F	268/-450
Maximum Temperature	°C/°F	1100/2012
Max. Continuous Temp	°C/°F	800/1472
Pressure	Bar/psi	85/1232

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SPIRAL WOUND MICA FILLER PB GR107

PRESSBOLT GASKETS



PB GR107 stands as an asbestos-free sealing material renowned for its exceptional resistance to high temperatures. When the thermometer climbs beyond 900°F, traditional sealing materials like graphite become impractical. At such elevated temperatures in the presence of oxygen, flexible graphite tends to undergo a process known as coking, rendering it unsuitable. In stark contrast, mica gasket material shines, maintaining its integrity within a wide temperature range from 900 to 1850°F. This impressive attribute positions mica as an excellent alternative for applications requiring high-temperature resilience, stretching up to scorching 1800°F. Moreover, its versatility is a hallmark feature, allowing it to be easily customized by adjusting its width to achieve various thicknesses for the production of precision spiral wound seals.

Advantages:

- 100% Non-asbestos
- High-temperature resistance
- Fire resistance without burning; fire-safe
- Low heat conductivity
- Minimal weight loss at elevated temperatures
- Resistant to a wide range of chemicals

Recommended Applications:

- Automobile exhaust manifolds
- Gas turbines
- Gas and oil burners
- Heat exchangers
- Suitable for use with most chemical agents, especially solvents, acids, bases, and mineral oils.

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Specification:

Property	Value
Mica Content	Ca.92%
Bond Content	Ca.8%
Density	1.6~2.45g/cm ³
Continuous Temp.	700~750°C
Intermittent Temp	1000°C
Heat Loss at 500°C	<1%
Heat Loss at 700°C	<2%
Flexural Strength	>300MPa
Water Absorption	<1%
Dielectric Strength	>=11KV/mm
Insulation Resistant 23°C	10 ¹⁷ Ω .cm
Insulation Resistant 500°C	10 ¹² Ω .cm
Flame Resistance	90V0
Smoking Test	<4s

Supplying Types

SWG	4.5MM THK	3.2THK
Thickness	0.5mm	
Width	5.5~5.6mm	4.2~4.3mm
Packaging	On plastic plates	

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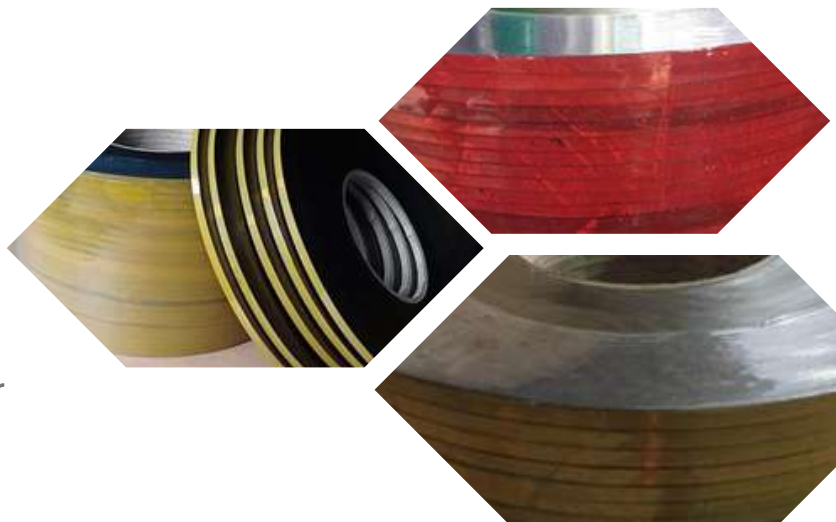
FLEXIBLE GRAPHITE SHEET/ROLLS

PB B201

1.) Flexible graphite foil is produced from high-carbon-content flake graphite that undergoes chemical treatment, expansion at high temperatures, and rolling.

2.) Flexible graphite rolls or sheets possess key characteristics such as high-temperature resistance, corrosion resistance, and excellent elasticity.

3.) Flexible graphite rolls or sheets serve as the fundamental material for manufacturing various reinforced graphite sheets, graphite tapes, packing materials, and sealing gaskets. They can withstand temperatures ranging from -200°C to $+650^{\circ}\text{C}$ in an air environment and from -240°C to $+3500^{\circ}\text{C}$ in a non-oxidizing environment.



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Dimensions

Item	Sheets	Rolls
Density g/cm ³	1.0	1.0
Length m	1000, 1500	30~100
Width mm	1000, 1500	1000~1500
Thickness mm	0.5~3.0	0.2~1.1

Specification

<i>Item</i>	Grade AA Nuclear Grade (Equal "APX2")	Grade A Fluoride-Free	Grade B "SSS grade" SHELL	Grade C "S Grade" Industrial Grid	Grade D
Oxidation Inhibitor	Yes	Yes	Yes	No	No
Carbon Content (%)	≥99.6	≥99.5	≥99.5	≥99.2	≥98
Sulphur content (ppm)	≤300	≤200	≤700	≤1200	≤1500
Chloride content (ppm)	≤30	≤50	≤40	≤45	≤50
Fluorine content (ppm)	N/A	N/A	≤10	≤30	≤40
Tolerance of density (g/cm ³)	±0.05	±0.05	±0.05	±0.06	±0.07
Weight Loss (670°C 1 hour)	≤1%	≤2.2%	≤4%	≤12% @500°C 1hour	≤20% @600°C 1hour
Compressibility (%)	35~55 (Density is 1.0g/cm ³)				
Recovery (%)	≥9.0 (Density is 1.0g/cm ³)				
Tensile Strength (MPa)	≥4.5				
Stress Relaxation (%)	≤10				

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