

Uni-Seals Product Catalog

Category: Gasket



UNI-SEALS

Unimax International Limited

www.uni-seals.com

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Spiral Wound Gasket



GA9100 Spiral wound gasket

Spiral wound gasket (SWG) consists of thin metal hoop and nonmetal filler material that are simultaneously wound. The metal hoop is pre-formed in V or W shaped profile, which allows the gasket to act as a spring between the flanges. The hoop also provides the basic structural element for the gasket while the nonmetal filler material seals the flange surfaces that are with small imperfections.

Depending on its excellent compression resilience, it is suitable for sealing spots where the alteration of temperature and pressure are frequent. It can be used as the static sealing element of pipe, valve, pump, thermal exchange, condensing tower, plain hole and man hole of flange, etc. It has been widely applied in the fields of petrochemical, mechanical manufactory, power station, metallurgy, shipbuilding, pharmaceutical, nuclear power station and navigation, etc.

Style:

Style	Construction	Suitable flange	Hoop material	Filler material	Inner & outer ring material	Normal thickness	
						Gasket	Inner & outer ring
GA9101	Basic style 	Tongue and groove	304, 304L, 316, 316L, 321, 317L, Titanium, Nickel, Monel, Inconel, etc.	Graphite, PTFE, Asbestos, Non-asbestos, Ceramic, etc.	Carbon Steel, 304, 304L, 316, 316L, 321, 317L, Titanium, Nickel, Monel, Inconel, etc.	3.2mm	2mm
GA9102	With inner ring 	Male and female					
GA9103	With outer ring 	Raised face Flat face					
GA9104	With inner & outer ring 						
GA9106	For use with RTJ flanges 	Ring-Type-Joint					
GA9110	With bar for heat exchanger 	Heat exchanger					

* Gaskets are color coded at the outside of the centering ring according to ASME B16.20 standard.

Service Limits:

Filler material	Temperature	Pressure
Graphite	-240°C~+550°C in oxidizing media	300bar in hot water, oil, etc
	-240°C~+800°C in non-oxidizing media	200bar in vapor oil, gases, etc
Asbestos	-150°C~+450°C	150bar
PTFE	-200°C~+250°C	150bar

Dimension:

Produced according to ASME, BS, JIS and DIN standards, etc. Special sizes and shapes are also available upon request.

Machined Metal Gasket



GA9200 Ring joint gasket

Our ring joint gaskets are machined from solid metal in a variety of shapes with high quality numerical control machines. They are designed for high pressure, high temperature or highly corrosive applications by selecting the most suitable materials and shapes.

All Uni-seals ring joint gaskets are forged and integral, non-welded.

GA9201 R type oval ring joint gasket

A standard ring joint gasket with oval cross section and designed for flanges with standard ring joint grooves.



GA9202 R type octagonal ring joint gasket

A standard ring joint gasket with octagonal cross section and designed for flanges with standard ring joint grooves. It is interchangeable with GA9201 oval section gasket on modern octagonal grooved flanges.



GA9203 RX type ring joint gasket

An adaptation of the standard R type ring joint gasket and designed to fit the same groove design as R type. It is interchangeable with the standard R type gaskets.



GA9204 BX type ring joint gasket

Designed for very high pressures. All BX gaskets incorporate a pressure balance hole to ensure equalization of pressure which may be trapped in the grooves. It is only suited for API BX flanges and grooves.



Normal Material:

Metal material	Ring identification	Maximum hardness	Temperature
Soft iron*	D	90 HB	-60°C~+500°C
Low carbon steel*	S	120 HB	-40°C~+500°C
5Cr1/2Mo	F5	130 HB	-40°C~+650°C
Stainless steel 304(L), 321	S304(L), S321	160 HB	-250°C~+550°C
Stainless steel 316(L)	S316(L)	160 HB	-100°C~+550°C
Stainless steel 347	S347	160 HB	-250°C~+550°C

* Gaskets made of soft iron or low carbon steel materials are normally applied with anticorrosive oil in final production. Zinc electroplating is also available on customer's special request, with a higher cost.

Other metal materials are also available on request.

Uni-seals ring joint gaskets are manufactured in accordance with relevant standards (such as ASME B16.20, API 6A, etc) to suit different flange designations (such as ASME B16.5, ASME B16.47 Series A, API 6B, API 6BX, etc).

Other machined solid metallic (heavy cross-sectioned) gaskets are also available on request, such as:

GA9210 Lens ring gasket, GA9220 Convex gasket, GA9230 Wedge gasket, GA9240 Delta gasket, GA9250 Transition ring and GA9280 Custom designed gasket etc.

Metal Jacketed Gasket



GA9300 Metal jacketed gasket

Our metal jacketed gaskets (MJG) take expanded graphite, non-asbestos or ceramic fibers etc as the filler material, and thin stainless steel foil, carbon steel foil or copper foil etc as the covering metal jacket. This kind of structure effectively protects the filler against pressure conditions, fluctuating temperatures and corrosion, providing outstanding resilience and efficient sealing.

GA9310 Single jacketed gasket



GA9310 has one of its contact surfaces covered and is ideally suited for comparatively narrow flange widths in circular and non-circular configurations. Suited for low pressure applications such as boilers, compressors, pumps, and diesel and gasoline engines, but not recommended for standard pipe flanges.

GA9320 Double jacketed gasket

The filler material is completely enclosed by a two piece metal jacket, which covers both the inside and outside diameters and both contact surfaces. It is designed for high pressure and temperature applications.

GA9321 Flat double jacketed gasket



GA9322 Corrugated double jacketed gasket



The metal jacket is formed from a corrugated jacket providing better resilience than the GA9321, since the corrugations form multi-seals across the flange sealing face.

Metallic Jacket Material:

CS, Soft Iron, SS304, SS304L, SS316, SS316L, Copper, Aluminum, Monel 400, etc.

Non-metallic Filler Material:

Flexible graphite, asbestos, non-asbestos, PTFE, ceramic fiber, etc.

Service Limits:

Material of jacket	Maximum temperature	Pressure
Carbon steel	300°C	20~60bar
Copper	400°C	20~60bar
Stainless steel (SS304, SS316, etc)	530°C	20~60bar

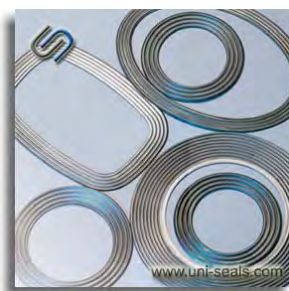
Dimension:

Outer diameter: up to 5000mm.

Thickness: from 2mm to 8mm.

Our MJG come in sizes according to ANSI B 16.21 and ANSI B 16.5 standard, EN 1514-4, or other sizes required by customers.

Corrugated Metal Gasket



GA9400 Corrugated metal gasket

GS9400 gasket has outstanding mechanical strength and thermal conductivity, capable of withstanding high temperature, almost no limitation on size, and trouble-free on handling and installation even for large size.

The gasket has been proven to be both reliable and cost-effective for the application on flanges and heads where bolt loading is sufficient. Typically used in high temperature applications and applications involving steam, water, gas, oil, etc.

GA9410 Corrugated metal gasket basic style

The corrugations in the gasket provide multi-seals across the face of the gasket and inherent resilience.

GA9420 Corrugated metal gasket with layer

The gasket is available to be covered with non-metallic material layers on both sides. It is normally used in low-pressure applications at high temperatures. It is suitable for gas pipes and valve caps, or wherever acids, oils and chemicals are found.

GA9422 Corrugated metal gasket with layer and inner rim

The inner rim protects the sensitive layers when mounting and could be advantageous at high temperatures.

Metallic Material:

Metal material	Din material No.	Density	Hardness	Temperature
CS/Soft Iron	1.1003/1.0038	7.85g/cm ³	90~120 HB	-60°C~+500°C
SS304, SS304L	1.4301/1.4306	7.9g/cm ³	130~180 HB	-250°C~+550°C
SS316, SS316L	1.4401/1.4404	7.9g/cm ³	130~180 HB	-100°C~+550°C

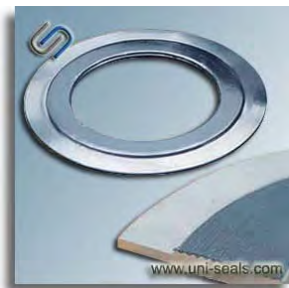
Other metal materials are also available on request.

Non-metallic Layer Material:

Flexible graphite, PTFE, non-asbestos, etc.

Normally in thickness of 0.5mm, 1mm, 1.5mm.

Kammprofile Gasket



GA9500 Kammprofile gasket

Kammprofile gasket consists of a metal core with concentric grooves on both sides. A sealing layer is usually applied on both sides and depending on the service duty the material for the layers can be graphite, PTFE, or other soft materials. The non-metallic layers protect the flange surface from damage in addition to providing an excellent seal at low bolt stress.

GA9501 Kammprofile gasket basic style

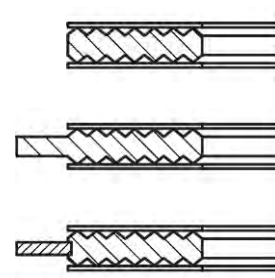
It is the basic gasket without centering ring.

GA9502 Kammprofile gasket with integral outer ring

Gasket with outer ring ensures optimum gasket positioning between the bolts.

GA9503 Kammprofile gasket with loose outer ring

Gasket with loose outer ring avoids possible damage caused by thermal shock conditions to gasket which is with integral outer ring.



Application:

It is the preferred gasket when improved performance at low seating stresses is required, particularly suitable for applications where high temperatures, pressures and fluctuating conditions are encountered. It is the ideal replacement for problem applications associated with jacketed gaskets, for heat exchangers, vessels, reactors and various flange connections.

Metallic Core Material:

Material	Din material No.	Density	Hardness	Temperature
CS/Soft Iron	1.1003/1.0038	7.85g/cm ³	90~120 HB	-60°C~+500°C
SS304, SS304L	1.4301/1.4306	7.9g/cm ³	130~180 HB	-250°C~+550°C
SS316, SS316L	1.4401/1.4404	7.9g/cm ³	130~180 HB	-100°C~+550°C

Other special metal materials such as Ti, Mon 400 etc are also available on request.

Non-metallic Layer Material:

Flexible graphite, PTFE, non-asbestos, etc.

Service Limits:

Depending on the layer material, the gasket can resist temperature up to 700°C.

Maximum sealing pressure: >250bar.

Dimension:

The gaskets can be manufactured in various shapes and sizes upon request.

Thickness of metallic core material: generally in 3mm but for gaskets with diameter above 1.5m it is suggested in 4mm.

Thickness of non-metallic layer material: generally in 0.5mm on each side.

Normal cam pitch: 1mm, groove depth: 0.4mm. Alternative profiles are available on request, e.g. cam pitch: 1.5mm, groove depth: 0.6mm, etc.

Flat Metal Gasket



GA9600 Flat metal gasket

Uni-seals supply flat metal gaskets with or without soft layers.

GA9610 Solid flat metal gasket

The gasket offers extremely tight sealing, high mechanical strength, and good resistance to temperature, corrosion and pressure. Bolting stress and flange surface finish are key to the performance of this design.

Normal material: aluminum, copper, brass, soft iron, SS304, SS316, etc. The hardness of gasket material must be less than the hardness of the flanges to prevent damage to the flange.

Application:

GA9610 gasket is best suited for application such as valve bonnets, ammonia fittings, heat exchangers, hydraulic presses, tongue-and-groove joints. It can be used when compressibility is not required to compensate for flange surface finish, warpage or misalignment and where sufficient clamping force is available to seat the gasket.

GA9620 Flat metal gasket with soft layers

The gasket consists of a flat metal core which is supplied with soft layers on both sides. The solid metal core provides high strength and rigidity, while the soft layers ensure excellent sealing performance. The soft layer material can flow easily into the flange faces allowing a high integrity seal, even under low applied seating stresses.

Normal metal core material: carbon steel, SS304, SS316, etc, normal in thickness of 3mm.

Normal soft layer material: graphite (0.5mm), PTFE (0.4mm).

Other materials and thickness are also available on request.

Application:

GA9620 gasket is typically used for large diameter gaskets, as well as heat exchanger duties where seating space is limited, normally in non-standard situations.

Metallic Material:

Metal material	Density	Maximum hardness	Maximum Temperature
Aluminum	2.7g/cm ³	35 HB	425°C
Brass	8.5g/cm ³	60 HB	260°C
Copper	8.8g/cm ³	80 HB	400°C
Soft Iron	7.85g/cm ³	90 HB	500°C
SS304	7.9g/cm ³	160 HB	550°C
SS316	7.9g/cm ³	160 HB	800°C

Non-metallic Gasket



Uni-seals offers various non-metallic flat gaskets, made from asbestos, non-asbestos, graphite, reinforced graphite, PTFE, improved PTFE, and various rubber sheets etc. They are used in large quantity by various industries and in a variety of applications. Available in standard and non-standard gasket designs.

Specification:

Style*	Material	Max. pressure	Max. temperature
GA1000, GA1000R1, GA1000R2, GA1000R3	Graphite	3.0~30.0Mpa	550°C
GA2220, GA2230, GA2240, GA2245, GA2255, GA2220R, GA2230R, GA2240R, GA2245R, GA2255R	Asbestos rubber (CAF)	2.0~6.5Mpa	200°C~570°C
GA2325, GA2330, GA2340, GA2350, GA2325R, GA2330R, GA2340R, GA2350R	Oil resistant asbestos rubber	2.5~5.5Mpa	250°C~520°C
GA2430	Acid resistant asbestos rubber	3.0Mpa	300°C
GA3220, GA3230, GA3240	Non-asbestos rubber (NCAF)	1.5~4.0Mpa	200°C~400°C
GA3320, GA3330, GA3340	Oil resistant NCAF	2.0~4.0Mpa	200°C~400°C
GA4000, GA4500	PTFE	10Mpa	260°C
GA5100, GA5100C, GA5200, GA5300, GA5400, GA5500, GA5600, GA5700, GA5750, GA5800, GA5850, GA5900	Rubber	2.0Mpa	70°C~250°C
GA8400, GA8500	Cork	2.0Mpa	150°C

* Refer to relevant sheet reference number in our catalogue for category "Sheet".

Other special materials, woven cloth or tapes of fiberglass, asbestos and ceramic are also available to be made into various gaskets.

Dimension:

The dimensions of our standard gaskets meet the requirements of the ASME B16.21, EN1514-1 (former DIN 2690, DIN 2691, DIN 2692), or other standards. Special sizes and shapes are also available upon request.

Graphite Gasket



Our graphite gasket is made from homogeneous graphite, reinforced by metal mesh, foil or tanged metal. It offers excellent sealing capabilities such as thermal stability, self-lubrication, corrosion resistance, not being brittle and aging etc. It is with long life and less maintenance is required under extreme conditions.

The rimmed metal gasket is an improvement from pure cut gaskets. The metal foils rimmed at inner and outer edges offer a special protection against blowout and chemical corrosion for the gasket, and increase the pressure resistance capability.

Style:

Sheet style	GS1000	GS1000R1	GS1000R2	GS1000R3
Sheet construction				
Without rim	GA1001	GA1001R1	GA1001R2	GA1001R3
With inner rim	GA1002	GA1002R1	GA1002R2	GA1002R3
With outer rim	GA1003	GA1003R1	GA1003R2	GA1003R3
With inner & outer rim	GA1004	GA1004R1	GA1004R2	GA1004R3
Inserted material	None	Tanged metal plate (0.25mm CS, 0.1mm SS304, 316)	0.05mm metal foil (SS304, 316 etc)	0.1mm metal mesh (CS, 304, 316 etc)

Recommended style:

GA1001R1 Tanged metal plate reinforced graphite gasket

GA1004R1 Tanged metal plate reinforced graphite gasket with inner & outer rim

Application:

Various shapes are available, used in petrochemical, mining, vessels, boilers, piping and ducts, pumps and valves, flanges etc. Suitable for steam, mineral oil, heat transfer oil, hydraulic oil, fuel, water, seawater, freshwater etc.

Specification:

Sheet style	GS1000	GS1000R1	GS1000R2	GS1000R3
Temperature	-200°C~+650°C	-200°C~+550°C	-200°C~+550°C	-200°C~+550°C
Maximum Pressure	30bar	300bar	200bar	200bar
Compressibility	≥30%	15~35%	35~50%	35~50%
Recovery	≥15%	≥15%	≥10%	≥10%
PH	0~14	0~14	0~14	0~14

Graphite Grades:

Grade	Density	Carbon content	Tensile strength	Sulphur content	Chlorine content	Stress relaxation	Ignition loss
Industrial	1.0g/cm ³	≥98%	4Mpa	≤1200ppm	≤50ppm	≤10%	≤1.0%
Nuclear	1.0g/cm ³	≥99.5%	5Mpa	≤700ppm	≤25ppm	≤10%	≤0.5%

PTFE Gasket

**GA4000 PTFE gasket**

The product is molded, skived or cut from virgin PTFE sheets, rods, tubes etc.

PTFE has the best chemical resistance among known plastics. It also has good aging stability, electrical insulation, wear resistance, and extremely low friction coefficient. The unloaded operating temperature range is -180~+260°C.

Application:

PTFE gasket is one of the most suitable types of gaskets for a variety of sealing applications. Different types of Uni-seals PTFE gaskets are available to meet various application demands.

Specification:

Density	Tensile strength	Elongation at break	Temperature	Maximum pressure
2.1~2.3g/cm ³	≥15Mpa	≥150%	-180°C~+260°C	10Mpa

GA4500 PTFE gasket with filler

It is PTFE gasket with filler materials such as glass fiber, carbon fiber and graphite etc. Improved mechanical and processing properties can be additionally reached by combination of virgin PTFE and different fillers.

See details in the product page "Filled PTFE Articles".

Dimension:

According to standards of ASME B16.5, DIN, etc. Special sizes and shapes are also available upon request.

Maximum external diameter is up to 2000mm.

For gaskets with outer diameter more than 1000mm, our style TA4107 expanded PTFE joint sealant tape might be considered as a substitute, which is very easy and economical

PTFE Envelope Gasket



GA4050 PTFE envelope gasket

Our PTFE envelope gasket consists of asbestos, non-asbestos, rubber, corrugated stainless steel etc as cushion material encased in PTFE envelope, resulting in a gasket with the excellent corrosion resistance of PTFE and the strength and resilience of core material. It can be produced in several types to meet the most demanding applications.

GA4060 V style PTFE envelope gasket

The PTFE is slit in center from outside.

It is an economical solution for lower pressure applications.



GA4070 Square style PTFE envelope gasket

The PTFE is cut into square envelope form.

For use with medium and higher pressure.



GA4080 U style PTFE envelope gasket

The PTFE is heat welded at the joint.

Normally for DN≥200mm.



Application:

GA4050 PTFE envelope gasket is the ideal solution for applications demanding virtually 100% chemical resistance and where the mechanical properties of a compressed gasket material are also needed. It performs well in the food processing industries where contamination of the medium is not permitted. Suitable for mediums like strong alkalis, cryogenic fluids, oxygen, chlorine gas etc.

Properties:

Virtually 100% chemically resistant.

Temperature range from -180°C to +260°C, depending on the core.

Mechanical strength dependent on core selection.

Pressure: ≤4Mpa.

Dimension:

According to standards of ASME B16.5, DIN, etc. Special sizes and shapes are also available upon request.

Normal Thickness:

Thickness of core: 2.0mm.

Thickness of PTFE: 0.5mm + 0.5mm = 1.0mm.

From 20 mm to 500 mm: the gasket is made in one piece;

From 500 mm upwards: the gasket is welded. There are no size limitations for gaskets with welded envelopes.

Expanded PTFE Tape



TA4100 Expanded PTFE tape

It is an inorganic sealant tape for static applications made of 100% virgin PTFE. A unique process converts PTFE to a microporous fibrous structure, resulting in a sealant tape with an unsurpassed combination of mechanical and chemical properties.

TA4107 Expanded PTFE tape with self-adhesive

For easy fixing onto the sealing surface, there is normally a self-adhesive strip which is covered with a protective tape on one side of the TA4100.

Application:

EPTFE tape is especially suitable for sealing flange connections, pipe systems, hydraulic and pneumatic systems, etc. In addition, it's also ideal for seals in glass, enamel and plastic flanges, vessels and special shaped sealing surface. EPTFE tape saves money and time. Since there is no scrap or waste, it costs less than other gasket materials. By using only a few sizes, large inventories of sheet gasket and costly precut gaskets can be eliminated. Installation time is kept to a minimum since there are no templates, precutting or special fitting requirements.

Specification:

Density	0.7~0.75g/cm ³
Temperature	-240°C~+260°C
Maximum pressure	100bar
PH range	0~14
Media	Acids, alkalis, solvents, gases, etc

Normal Dimension:

Width	Thickness	Length/roll
3mm	1.5mm	30m
4mm	2.5mm	30m
5mm	2.0mm	25m
6mm	3.0mm	25m
7mm	2.5mm	25m
8mm	3.0mm	25m
10mm	3.0mm	25m
10mm	4.0mm	25m
12mm	4.0mm	10m
14mm	5.0mm	10m
16mm	5.0mm	10m

Width	Thickness	Length/roll
17mm	6.0mm	10m
20mm	7.0mm	5m
25mm	8.0mm	5m
30mm	3.0mm	5m
30mm	5.0mm	5m
40mm	3.0mm	5m
40mm	5.0mm	5m
50mm	3.0mm	5m
50mm	5.0mm	5m
60mm	3.0mm	5m
80mm	3.0mm	5m

Other dimensions are also available on request.

Expanded PTFE Round Cord**CO4100 Expanded PTFE round cord**

Valve-spindle cord made of pure expanded PTFE, used as valve-spindle and flange seals in the chemical, pharmaceutical and food processing industries. Flanges are sealed quickly and securely by simple insertion of a ring of PTFE round cord (ends twisted).

Specification:

Density	0.75~0.8g/cm ³
Temperature	-240°C~+260°C
Maximum pressure	100bar
PH range	0~14
Media	Acids, alkalis, solvents, gases, etc

Normal Dimension:

Diameter: 2~10mm.

Length: 5m, 10m, 15m per roll.

Expanded Graphite Tape**TA1000 Expanded graphite tape**

Used as stuffing material. Fully reel and stuff the tape along the stems or shafts to make it work. It's easy-to-install and can be used in emergencies.

Can be used in mediums like hot water, high temperature and high pressure steam, hydrogen gas, ammonia, organic solvents and so on.

TA1007 Expanded graphite tape with self-adhesive**TA1010 Corrugated graphite tape****TA1017 Corrugated graphite tape with self-adhesive****Specification:**

Density: 1.0g/cm³

Normal Dimension:

Thickness: 0.4mm, 0.5mm.

Width: 10mm~30mm.

Length: 10m~15m/roll.

Woven Graphite Tape



TA1020 Woven graphite tape

The tape is woven from expanded graphite yarns. It has all the advantages of the expanded graphite, with high strength and good flexibility.

TA1027 Woven graphite tape with self-adhesive

With self-adhesive tape on one side of TA1020 woven graphite tape.

Available to be reinforced with stainless steel wire, nickel wire or copper wire (style number: TA1020R, TA1027R).

Application:

Used as sealing material for expansion joints, valve stems and furnace doors etc.

Specification:

Temperature: $-220^{\circ}\text{C}\sim+550^{\circ}\text{C}$.

Pressure: 40bar.

PH value: 0~14.

Normal Dimension:

Thickness: 1.5~6.0mm.

Width: 25~100mm.

**Note:**

1. All technical details quoted throughout this catalogue are based on our extensive tests and years of experience, however, they can only serve as guide values. Your specific application should not be undertaken without independent study and evaluation for suitability. Failure to select proper products and specifications could result in property damage and/or personal injury.
2. Technical details subject to change without notice. This edition cancels all previous issues.

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