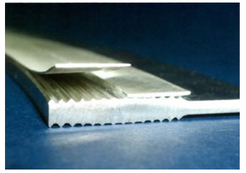
KMG COMPROFILE GASKETS

COMPROFILE Gaskets



Camprofile Gaskets are widely used on high pressure & high temperature plumbing flanges and is ideal for the pressure vessels, heat exchangers and valve bonnet. Camprofile Gasket has smaller contact area and has excellent sealing effect with lower torque than Flat Metal gasket, however, it may occur flange damages if the hardness of Flange & Gasket is same or the difference of the hardness between Flange & Gasket is very little.
In this reason, Soft Graphite, PTFE, or Non-Asbestos layer can be attached on the surface of serrated metal gasket and it prevent Flange damages & enlarges sealing efficiency.

Camprofile Gasket은 Stainless 재질의 원판에 양쪽 면으로 홈이 나 있는 형상이며, 보통 양쪽 면에 Sealing층이 적용되며 사용영역에 따라 Flexible Graphite, PTFE, Non-Asbestos 재질 등이 사용됩니다. 또한, 밀봉성이 뛰어나 Sealing 층이 없어도 사용 가능하나 높은 체부력에 의해 플랜지 손상의 위험이 있으며 그 Sealing 층은 플랜지 표면을 손상으로 부터 보호하고 효과적인 밀봉성을 제공합니다.

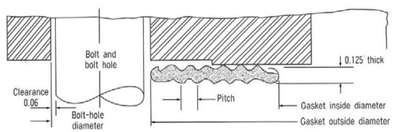
금속판을 동심원상의 톱니형태(Serrated Type)로 제작하여 유효 접촉면을 최소화하여 낮은 체부력에서도 정착 가능하게 한 가스켓이며, 필요시 Inner Ring, Outer Ring을 부착하기도 합니다. Solid Metal Core를 직접으로 사용하기 곤란하거나 보다 낮은 체부력을 필요로 하는 라인 또는 사용 조건에 따라 Serration 부위에 Soft Sealing Material을 부착하여 고온환경, 내화학성이 요구되는 부분 등 다양한 용도로 활용 가능합니다.

KMG DOUBLE JACKET GASKETS

Double Jacket Gaskets

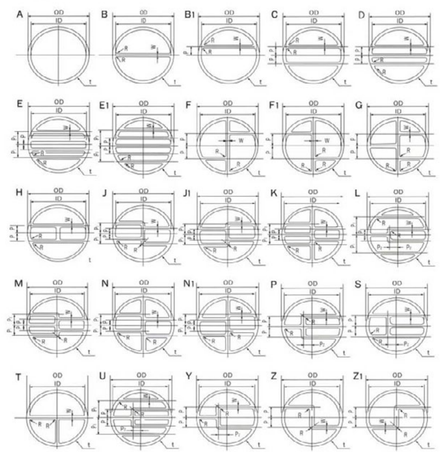
Double Jacket Gasket은 Non-Asbestos sheet, Graphite, PTFE 등의 Cushion재를 중심으로 금속 또는 비철금속의 엷은 판으로 피복하여 금속의 내열성과 Cushion재의 특성이 복합되어 우수한 Seal성을 발휘합니다.

Double Jacketed Non-asbestos filled gaskets for ASME/ANSI B16.5 Flanges



Tolerance

Description	Tolerance(inch)
1) Thickness	+0.03 -0.00
2) Gasket I.D	+0.06 -0.00
3) Gasket O.D	+0.06 -0.00



KOREA MASTITE CO., LTD.
The British Gaskets Group Korea

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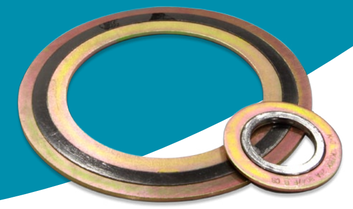
KOREA MASTITE

SEMI METAL GASKET



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KMG SPIRAL WOUND GASKETS

Properties and Application

Spiral wound gaskets are special semi-metallic gasket of great resilience, there fore they are very suitable for applications featuring heavy operating conditions. Spiral wound gaskets are manufactured spirally winding a V-shaped metal strip and a strep of non-metallic filler material. The metal strip holds the filler, providing the gasket with mechanical resistance and resilience. Spiral wound gaskets can be reinforced by an outer centering ring and/or inner retaining ring. The outer centering ring controls the compression and holds the gasket centrally within the bolt circle. The inner retaining ring increases the axial rigidity and resilience of the gasket. Spiral wound gaskets should always be in contact with the flange and should not protrude into the pipe or project from the flange. Spiral wound gaskets can be used for dealing flange joints, manhole and handhold covers, tube covers, boilers, heat exchangers, pressure vessels, pumps, compressors and valves; in industries such as petrochemical, pharmaceutical, shipbuilding, and food processing, in power industries and nuclear power stations. They are ideal for stem, oil, liquids, gases, acids, alkaline, various organic mediums and solvents.

Advantages

- Sealing under heavy operating conditions.
- Strong stress compensation, stable and reliable sealing performance even under frequent pressure fluctuation condition.
- Solid construction provides stability and seallability even when the sealing surfaces are slightly corroded or bent.
- Easy installation.

Gasket standard style

_Spiral wound gasket 기본형

_Spiral wound gasket 내외륜형

_Spiral wound gasket 외륜형

Shape and construction

Spiral sound gaskets are produced in several styles and combination of materials to fit the most stringent application. Spiral wound gaskets are usually of circular shape, however we can produce them in other shapes such as: oval, rectangular, with round corners, etc. Our standard production program comprises a range of spiral wound gaskets with inner diameters of 10mm to 3000mm and a nominal thickness of 3.2mm, 4.5mm and 6.5mm. Spiral Wound gaskets of non-standard dimension and shapes, and larger diameters are available on request.

Gasket standard styles

- Gaskets without guide and inner ring
- Gaskets without guide and inner ring - with PTFE sealing zone
- Gaskets with inner ring
- Gaskets with guide(outer) ring
- Gaskets with guide and with inner ring

Metallic strip

Standard thickness of the metallic strip is 0.2mm (0.18).

Materials for metallic strip	
ASTM	DIN Material No.
AISI 304	
AISI 316, 316L	1.4401, 1.4404

Filler

Filler is normally used for thicknesses from 0.5mm to 0.6mm.
- Flexible graphite 98%
- Flexible graphite 99.85%
- PTFE, EPTFE
- Ceramic, Micalit

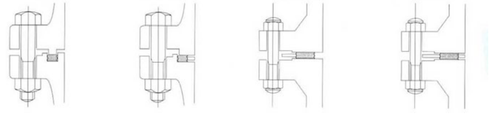
Centering ring

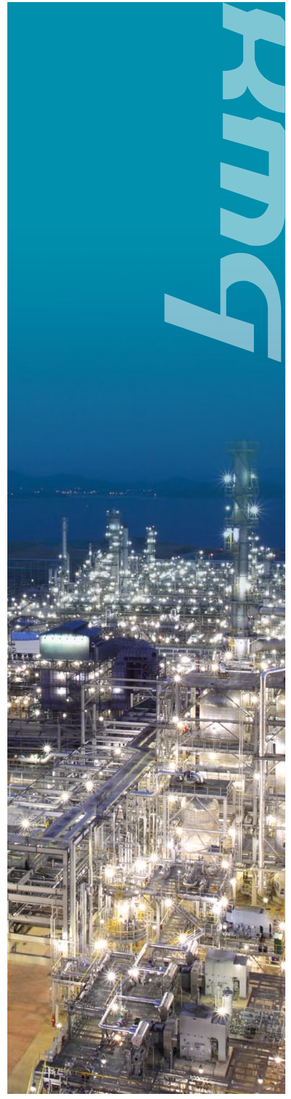
The centering ring does not come into direct contact with contained fluid.
It is normally Made of carbon steel and electro plated or painted to avoid corrosion.
Other materials are Available on request.

Inner ring

Inner ring is used to avoid excessive compression due to high seating stress in high-pressure Service and it is also used to reduce turbulence in the flange area. It is normally made of the Same material as the gasket metallic strip.

Type 'S' Type 'SI' Type 'OS' Type 'OSI'





SWG - OUT RING Type

KMG5914, KMG5916, KMG5918

Description

KMG5914, 5916, 5918 are fitted an external
metal guide ring.This combines the essential advantages of spiral wound construction with an integral external metal ring which accurately centres the gasket on the flange face, providing additional radial strength, this serves to prevent the gasket from being over compressed and thus damaged during assembly.

The external ring is grooved to secure the sealing element during transit and assembly and black chromate passivated for corrosion protection. Standard materials are type 304, 316 Stainless steel for the metal winding and Non-Asbestos, Teflon and Graphite for the filler material and Low carbon steel, SS304 or SS316 for the external ring.

외륜형은 기본형 Spiral Wound Gasket에 외륜이 부착된 것이다. 기본형 Spiral Wound Gasket 구조의 본래의 장점에 Flange면의 중심에 Gasket을 정확하게 맞출 수 있게 외륜을 결합시킴으로서 부가의 강도를 가지게 하며 Gasket이 너무 압축되어 손상을 입는 것을 막아 준다.

외륜 Ring의 표준재질은 SPCC3.0~3.2mm 두께를 하여 이외의 경우는 지시에 의한다.

Temperature

Non-Asbestos Type : 300℃
Grafoil Type : 무산화범위 : -200 ~ 800℃
산화범위 : -200 ~ 400℃
Teflon Type : 260℃

Application

Hydrogen, Steam, Water, Ammonia, Dowtherm, Acids, Air, Nitrogen, Oxigen, Alkali, Oils, Gasolin, Butan, Propane, Solvent

Reference Standard

KS V 7112 520 SU
JIS F 7102 520 SU
JIS F 7102 450 SU
API 601-82

SWG - 열교환용 가지붙이 형

KMG-EX

Description

By the instruction of drawing, the branch of Bakukgan of Red Cushion Jacket Type is welded to the inside of the Spiral Wound Gasket.

도면의 지시에 의해 4.5mm 두께의 Spiral Wound Gasket의 내경 측에 Cushion Jacket 형 Rod에 박육관 가지를 용접한 것이며, 가지부분은 각종 모양으로 가공된다.

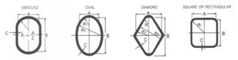
Temperature

Non-Asbestos Type : 300℃
Grafoil Type : 무산화범위 : -200 ~ 800℃
산화범위 : -200 ~ 400℃
Teflon Type : 260℃

Application

열교환기의 부동관판 및 고정관판의 Gasket 등에 사용된다.

SWG - 특수형상 타입 형



KMG-M

Description

Special style Spiral Wound Gasket are made in Oval, Track, Square or Diamond shapes.

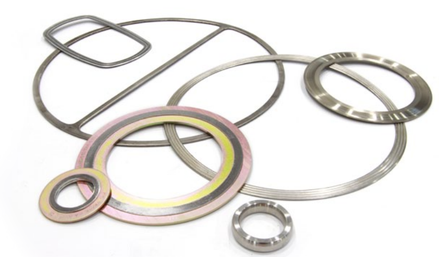
특수 형상 Spiral Wound Gasket 형상으로 타원형, 트랙형, 다이아몬드형, 사각형 등이 있다.

Temperature

Non-Asbestos Type : 300℃
Grafoil Type : 무산화범위 : -200~800℃
산화범위 : -200~400℃
Teflon Type : 260℃

Application

Boiler, Manhole, Tubecap, Handholes, Value bonnet 등에 사용된다.



KMG CORRUGATED METAL GASKETS

Advantages

- Outstanding mechanical strength and thermal conductivity.
- Capable of withstanding high temperatures.
- There are almost no limitation regarding size.
- Solid construction provides stability even for large diameters and ensures trouble-free handling and installation.

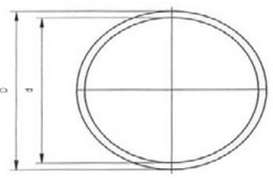
Shape and construction

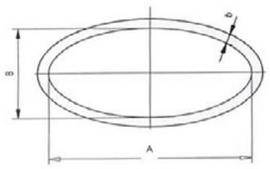
The metal gaskets are produced in several types to meet the most demanding applications. Shapes: Round, Oval, Rectangular, etc.

Materials for metal and corrugated metal gasket		
Material	ASTM	DIN Material No
Low carbon Steel	Soft iron(CS)	1.0333
Stainless steel	AISI 304	1.4301
Stainless steel	AISI 316, 316L	1.4401, 1,4404

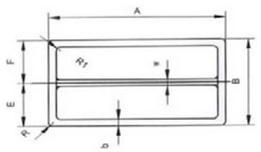
Size

The gasket constructions with an outside diameter 1000mm is usually made in one piece, larger dimensions are welded. Welding is also recommended for cost-effectiveness.





Tip: A x B x b (oval)



Profile

The metal is 0.5mm thick and the corrugation pitch is 3mm, 4mm, 5mm or 6mm depending on the width and size of the gaskets. The thickness of corrugation is approx. 1mm to 1.5mm, depending on gasket size. Corrugated metal is covered with graphite, ceramic or PTFE layers in thickness 0.5mm-2mm.

Gasket ordering example

STANDARD SIZE : CORRUGATED GASKET M 12A, EN 1514-4DN100, PN40
Material : 1.4571 / Graphite

KOREA MASTITE CO.,LTD.
The British Gaskets Group Korea

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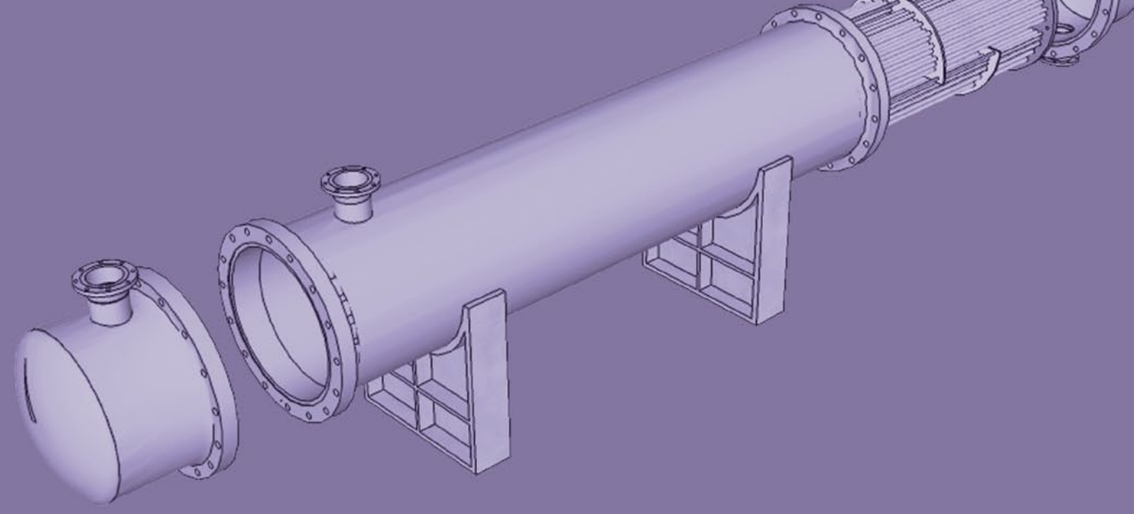
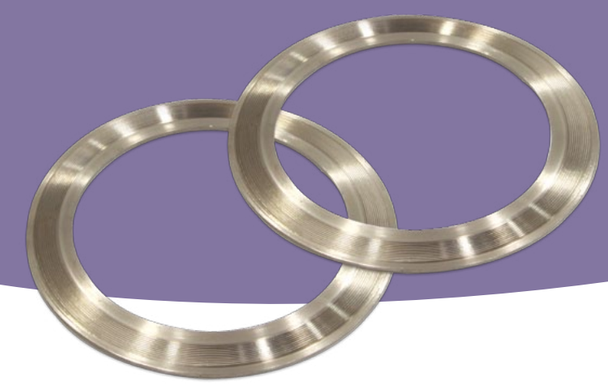


KOREA MASTITE

METALLIC GASKET



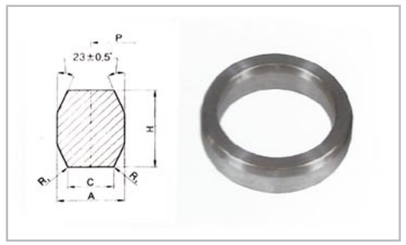
KOREA MASTITE CO.,LTD.
The British Gaskets Group Korea

KMG RING JOINT GASKETS

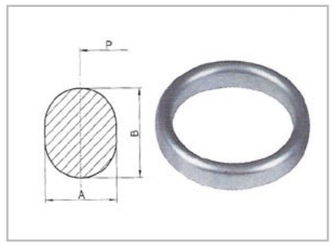
Ring Joint Gaskets

Ring joint gasket is a type of pressure energized gasket used on pipe flanges, pressure vessels, valve bonnets handing, high pressure steam, gas, hot oil, solvent vapor at high temperauter.

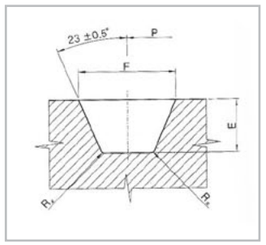
금속의 단면을 오발, 옥타고날 등의 Ring 형태로 가공하여 관플랜지, 압력용기, 고압증기를 취급하는 화학플랠트, 선박, 석유정재 등에 내압 가스켓입니다. 고온고압 증기, 오일, 가스, 용제 등의 Process Line의 배관을 비롯하여 고압용기, 탑조류, 밸브본넷 등의 진공에서 부터 1000kg/㎠ 이상의 범위 까지 사용할 수 있습니다.



Octagonal



Oval



Groove

KMG O-RING GASKETS

O-Ring Gaskets

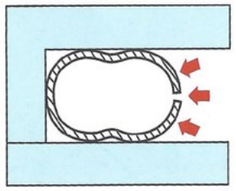
The metallic O-Ring Seals are used when elastomers and other non-metallic seals will not seal properly or do Not offer the required reliability for application, usually as a result of temperatures, pressures, or the environment.,
Out gassing or from deterioration due to age. Metallic O-Ring Seals are generally fabricated from tubing consisting Of stainless steel or high temperature alloys such as inconel. These materials are frequently used because they offer reilient properties that enable the seal to “Spring-Back”.

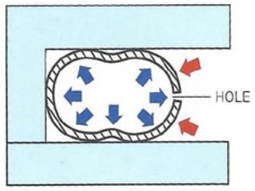
Applications

“We welcome the opportunity to design a seal to fit your application. Whether you are sealing gases or liquid
-250℃ or 1000℃, vacuum to 2,000kg/㎠.”

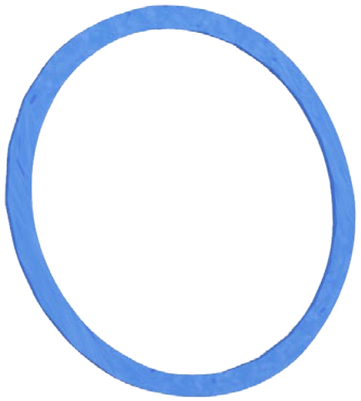
Shaped Seals

Metallic O-Ring Seals can be produced in various shapes. The availability of shaped O-Ring permits the design Engineer to select the shapes. However, we recommend contacting our Technical Service staff for design assistance Of seal and grove.





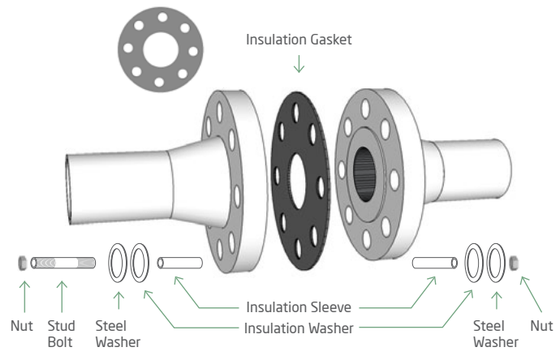
Metal O-Ring (Basic Type)



KMG INSULATION FLANGE SHEET & GASKET KIT

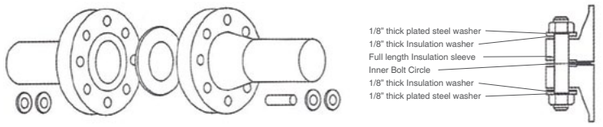
Characteristic

지하배관과 지상배관 사이의 전기적 보호를 위하여 사용하는 제품으로, 지하배관을 통하여 지상으로 유입되는 전류를 차단하여 쇼크로 인한 인명피해를 방지하며, 전위차로 인한 지하 매설물 및 이종재질로 연결된 배관의 전기적 이온부식을 방지합니다.

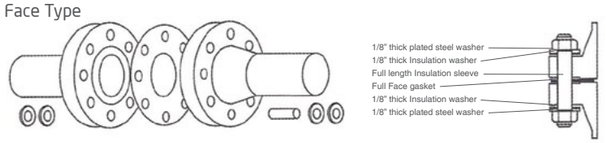


Standard Styles of Insulation Sets

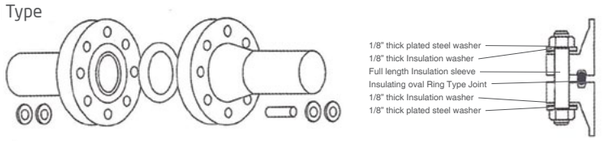
Raised Face Type

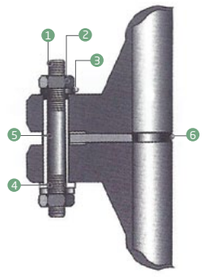


Full Face Type



R.T.J Type





1. Nut
2. Stud Bolt
3. Insulation Washer
4. Steel Washer
5. Insulation Sleeve
6. Insulation Gasket

Insulation Set Material

Item	Materials	Max. Temp.(℃)	Thickness
Insulation Gasket	PTFE Solid	260	3.0T ~ 3.2T
	Rubber	150	
	Neoprene Faced Reinforced Phenolic	130	
	Glass Reinforced Epoxy with Viton Seals	180	
Insulation Sleeve	Phenolic Glass	130	0.8T ~ 1.0T
	Epoxy Glass	180	
	PTFE	260	
Insulation Washer	Glass Reinforced Epoxy	180	3.0T
	Glass Reinforced Phenolic	130	
Steel Washer	Carbon Steel	N / A	3.0T ~ 4.0T
	Stainless Steel	N / A	
Nut	A194 Gr.2H(ASTM)	N / A	N / A
Bolt	A193 Gr.B7(ASTM)	N / A	N / A

Printed by July. 31. 2014

KOREA MASTITE

RUBBER SHEET & GASKETS
GRAND PACKING GASKETS
INSULATION FLANGE SHEET & GASKET KIT

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The British Gaskets Group Korea

KMG RUBBER SHEET & GASKETS

탄력있는 고무재질로 압축, 복원성, 작업성이 좋고 낮은 체부압에서도 안정적인 Sealing 성능을 유지하는 고무시트 Gasket 입니다. 각종 기관의 Flange 기구 등의 가스켓으로 유체의 종류에 맞는 재질을 선정하여야 한다.

기호	특징	상용온도(℃)	주요용도
NR	천연고무 / 촉감이 좋고 기계적 특성 우수하지만 공기 중 노화하기 쉬우므로 일광, 오존 등의 직사 고온에 사용 불가	–40 ~ 60	자동차타이어, 신발
NBR	니트릴고무 / 가장 일반적으로 사용되며 내유, 내마모, 내노화성 양호	–25 ~ 100	오일씰, 가스켓, 내유호수, 콘베어벨트
CR	클로로클랜고무(NEOPRENE) / 내후, 내오존, 내열, 내약품, 내노화성이 평균적으로 우수	–30 ~ 140	전선피복, 콘베어벨트, 방진고무
EPDM	에틸렌프로릴렌고무 / 내노화, 내오존, 극성액체에 대한 저항성, 전기적 성질 양호	–40 ~ 140	전선피복, 자동차의 웨더스트립 중기
SI	씰리콘고무 / 내열성, 내약품성, 내한성 우수	–60 ~ 250	
SBR	스트렌부타디엔고무 / 브레이크 오일에 적당, 천연고무 보다 내마모, 내노화성 양호하고 값이 싸다	–35 ~ 90	자동차타이어, 신발 자동차부품
VITION	불소고무(FKM) / 최고의 내열, 내약품성	–25 ~ 200	내열, 내유, 내화학약품
I IR	내후, 내오존, 내가스 투과성 양호	–40 ~ 120	자동차타이어용 튜브
CSM	내노화, 내오존, 내약품, 내마모성 양호	–25 ~ 130	내후성, 내실성도료, 탱크라이닝 고무
Q	고도의 내열성과 내한성	–75 ~ 200	팩킹, 가스켓, 오일씰 등 내열, 내한용

KMG GRAND PACKING GASKETS

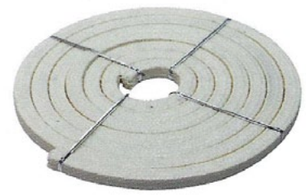
테프론 섬유 팩킹

Characteristic

PTFE 섬유를 8편 또는 격자편으로 편조한 팩킹으로 내약품성 및 내식성이 극히 우수하여 팩킹에 의한 유체의 오염을 방지하는 용도에 적합한 팩킹으로 거의 모든 산, 알칼리용제, 회전기기, 왕복운동기기, 밸브 등에 사용됩니다.

Applications

		Pump	Mixer	Valve
Pressure	Mpa	5	15	20
Temperature	℃	-200 ~ 280		
Linear Speed	m/s	0 ~ 8		
Ph Range		0 ~ 14		



윤활유입 테프론 섬유 팩킹

Characteristic

테프론 섬유 팩킹에 특수윤활제를 합침시킨 팩킹으로 내식성이 가장 우수한 팩킹이며, 거의 모든 약품에 사용가능하며, 기계적 강도가 강하며, 내마모성도 우수합니다. 부식성유체, 염산, 초산 및 각종 화학약품, 펌프, 왕복운동기기, 회전기기 등에 사용됩니다

Applications

		Pump	Mixer	Valve
Pressure	Mpa	2	10	15
Temperature	℃	-200 ~ 280		
Linear Speed	m/s	0 ~ 20		
Ph Range		0 ~ 14		

슈퍼프론(흑연입 테프론 섬유 팩킹)

Characteristic

PTFE에 흑연과 윤활유를 가공에 일체화한 섬유사를 단면각형으로 견고하게 편조한 코일팩킹이며, 자체윤활성과 내구성, 열전도성이 우수하여 석유화학, 케미칼, 동력산업에 유용하게 쓰입니다.

Applications

		Pump	Mixer	Valve
Pressure	Mpa	3	10	20
Temperature	℃	-200 ~ 280		
Linear Speed	m/s	0 ~ 20		
Ph Range		0 ~ 14		

아라미드 섬유 팩킹

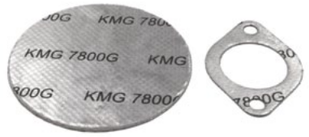
Characteristic

아라미드섬유사에 PTFE를 합침시켜 직조한 팩킹으로 매우 높은 인장강도를 가짐으로 이송하는 유체내의 슬러지가 많아 팩킹의 조직이 쉽게 파괴되고 자주 교환해야 하는 부위에 사용하면 극대의 효과를 낼 수 있는 팩킹입니다. 물, 해수, 공업폐수, 산 및 알칼리용액, 각종 유기용제 등에 사용됩니다.

Applications

		Pump	Mixer	Valve
Pressure	Mpa	2.5	15	15
Temperature	℃	-200 ~ 300		
Linear Speed	m/s	0 ~ 15		
Ph Range		2 ~ 13		

KMG 7800G GRAPHITE SHEET&GASKETS



Material profile

Made of expanded graphite reinforced with tanged carbon steel, used as gasket material.

Typical application

Used widely at industry especial at automotive industry such as engine cylinder head, exhaust system, etc. seal for oil, fuel, solvent.

Property	Standard	unit	Value	
Thickness		Mm	1.2	1.5
Tolerance of thickness		Mm	±0.05	±0.05
Density (graphite layer)		g/㎤	1.3	1.3
Tolerance of density		g/㎤	±0.10	±0.10
Compressibility	ASTM F36A	%	5-16	5–16
Recovery	ASTMF36A	%	≥40	≥40
Leakage rate		ml/min	≤0.8	≤0.8
Temperature :				
Max. temp.(inert atmosphere)		℃	2500	2500
Continual work temp.		℃	300	c
Fluid resistant :				
•ASTM 3# oil 150℃, 5h			∠15	∠15
Weight increase		%	≤6	≤6
Thickness increase		%		
•LLC50% 100℃, 22h				
Weight increase		%	∠15	∠15
Thickness increase		%	≤5	≤5
Sulfur content	ASTM C816	ppm	-1300	-1300
Leachable Chloride content	ASTMF1277	ppm	≤30	≤30
Ash content	ASTMC5W61	%	≤1.0	≤1.0

Data report corresponds to laboratory and field-tests typical results. Technical guidance are pleased to assistant when requested.

Supply data :
Size in mm : 500 X 1000, 1000 X 1000
Special specification upon requirement.

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한국매스타이트(주) Head Office and Factory

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www.kmgasket.co.kr / Printed by July. 31. 2014

KMG 6800G GRAPHITE FOIL / SHEET

The raw material of KMG6800G is natural graphite flake with well-ordered crystalline structures. We try our best to select the highest-quality raw material to produce KMG6800G. The resulting alignment of the graphite particles and / or their planar structures produces a high degree of anisotropy in the properties.
The high purity of KMG derives from the raw materials used, as well as from the quality of the mechanical, chemical and thermal purification process.

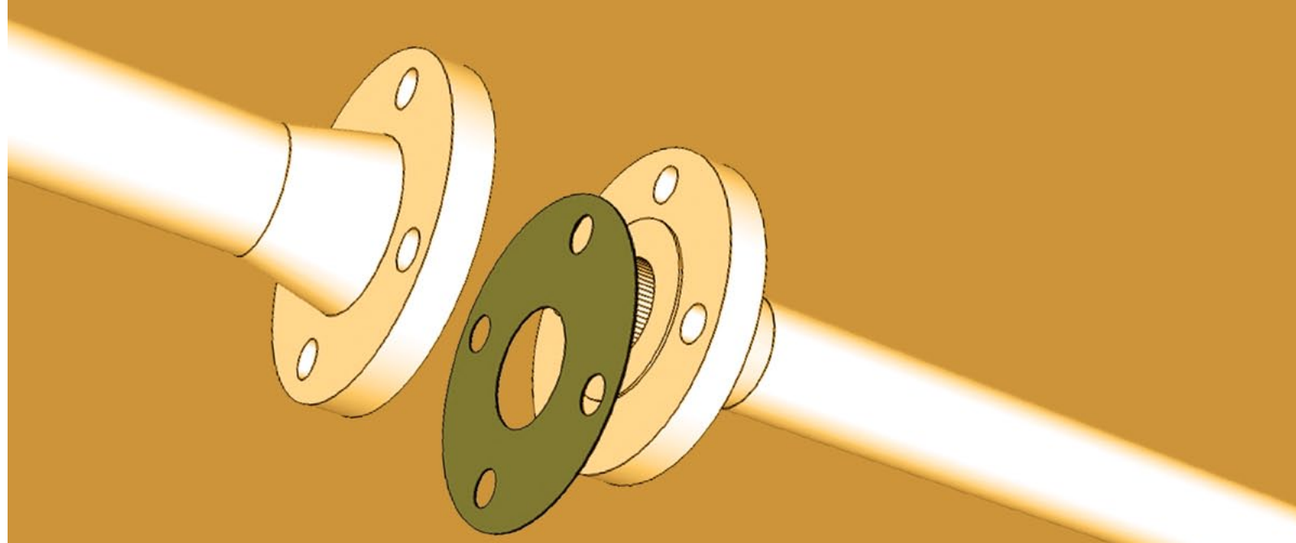
KOREA MASTITE can supply three grades of KMG6800G according to the different service conditions Normally, ATM is used in automatic industrial.
IDMA and IDMB is used in general industrial.

Characteristic data for a graphite bulk density of 1.0g/㎤, 1.00mm thickness:

Property	Standard	unit	Grade		
			ATM	IDMA	IDMB
Tolerance of thickness		Mm	±0.06	±0.04	±0.04
Tolerance of density		%	±6	±3	±4
Compressibility	ASTM F36A	%	35-55	35-55	35-55
Recovery	ASTM F36A	%	≥8.0	≥9.0	≥9.0
Tensile strength	JB/T 9141.2	Mpa	≥3.2	≥4.5	≥4.0
Leakage rate	DIN 3535-6	Mg/m.s	≤0.10	≤0.08	≤0.10
Carbon content	JB/T 9141.6	%	97.0	99.3	99.0
Ash content	ASTM C561	%	3.0	0.7	1.0
Sulfur content	ASTM C816	Ppm		1000	-1300
Chloride content	ASTM F1277	Ppm		35	50
Fluoride content		Ppm			
Oxidation rate(670℃,1h)		%	50	30	30

Supply data

Production	Thickness	Graphite bulk density(g/㎤)
Syflex foil Syflex sheet	0.20to1.00 500/1000/1500 50/75 0.20to2.00 500/1000/1500 0.5/1.0/1.5 Homogeneous, free of adhesives and binders.	0.7/0.9/1.0/1.1 0.7/1.0
yflex sheet	2.00-3.00 500/1000/1500 0.5/1.0/1.5 With adhesive.	1.0



KOREA MASTITE

NON-METALLIC SHEET & GASKET

KOREA MASTITE CO.,LTD.
The British Gaskets Group Korea

KMG TEFLON SHEET & GASKETS– KMG PTFE V100

Teflon Sheet - KMG PTFE

General properties

- extremely high chemical inertness towards nearly all known chemicals excluding molten alkali metals and fluorine gas.
- PTFE is not inflammable and has a good stability for continuous use up to 260℃.
- low friction and excellent release properties
- non toxic, therefore can be used in contact with food.
- some properties of virgin PTFE(like cold flow, wear resistance...)could be further improved by incorporation of different fillers such as glass fibers, graphite fibers, graphite, bronze or mixture of these fillers.

Technical data(typical values for sheets made of virgin PTFE)

Temperature range		-200℃ to + 260℃
pH range		0 - 14
Density	DIN 53479	2.15g/㎤
Tensile strength	ISO 527-1	25N/㎟
Elongation	ISO 527-1	250%
Hardness	DIN 53505	56 Shore D

KMG PTFE Gaskets

Properties and Application

PTFE gaskets are one of the most suitable types of gaskets for a variety o sealing applications and are mostly based on virgin PTFE or filled PTFE. PTFE gaskets provide an extensive range of applicability. PTFE is a fluoropolymer, which features an outstanding chemical resistivity to almost all chemicals, good thermal insulation properties, and useful mechanical and processing characteristics. The can be mostly used in valve seats, bearings, requested to resin sliding and chemicals, elastic band for un-lubricated compressors, O-rings where elastomers can not withstand. An extended range of improved mechanical and processing properties can be additionally reached by combination of virgin PTFE and different fillers. Different combination offer a variety of different properties describet in the following table.

Filler	Improved properties
Glass	enhanced wear resistance / chemical resistance
Graphite	extremely low coefficient of friction fairly good compressive strength / good wear resistance
Carbon	good thermal resistance / resistance to deformation
Bronze	enhanced compressive strength good wear resistance / high thermal conductivity

Expanded PTFE gaskets and seal materials consist of virginal PTFE with multidirectional fibrous and / or porous structure, which the extruded PTFE consists of. A special manufacturing process provides the material with special chemical and physical properties. This can be of advantage in wide range of the applications.

Advantages

Virgin PTFE, PTFE compounds and expanded PTFE offer a wide range of compounded products with good mechanical properties, electrical properties, thermal properties, chemical resistance, low friction coeficient and good resistance to wear.

KMG NON-ASBESTOS SHEET & GASKETS– KMG 1800NA

Gasket Material for Lower loadings

KMG 1800 NA is composed from organic fibers and NBR rubber. Chemical resistance against water, gases, oils and fuels is very good. Material is very suitable for the sealing acolication at lower loadings.

Properties and Application

Gasket material with good resistance to water, gases, fuels and oils at lower loadings.

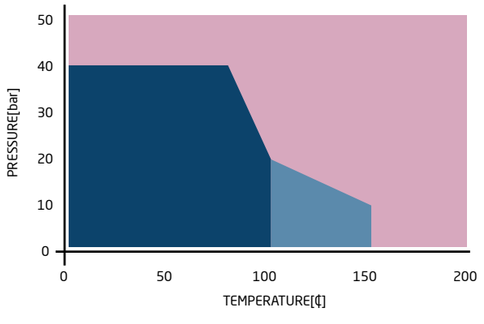
Basis	Organic Fibres, NBR
Approvals applied for	TARC/MRPRA , DVGW KTW

SURFACE TREATMENT	DIMENSIONS OF STANDARD SHEET
Treatment with graphite, PTFE and antistick coating is available on request.	Sheet size(mm) : 1000×1500 I 1500×1500 3000×1500 I 4500×1500
	Thickness (mm) : 0.5 I 0.8 I 1.0 I 1.5 2.0 I 3.0
	Other dimensions and thicknesses on request

Technical Data Type values for a thickness of 2mm

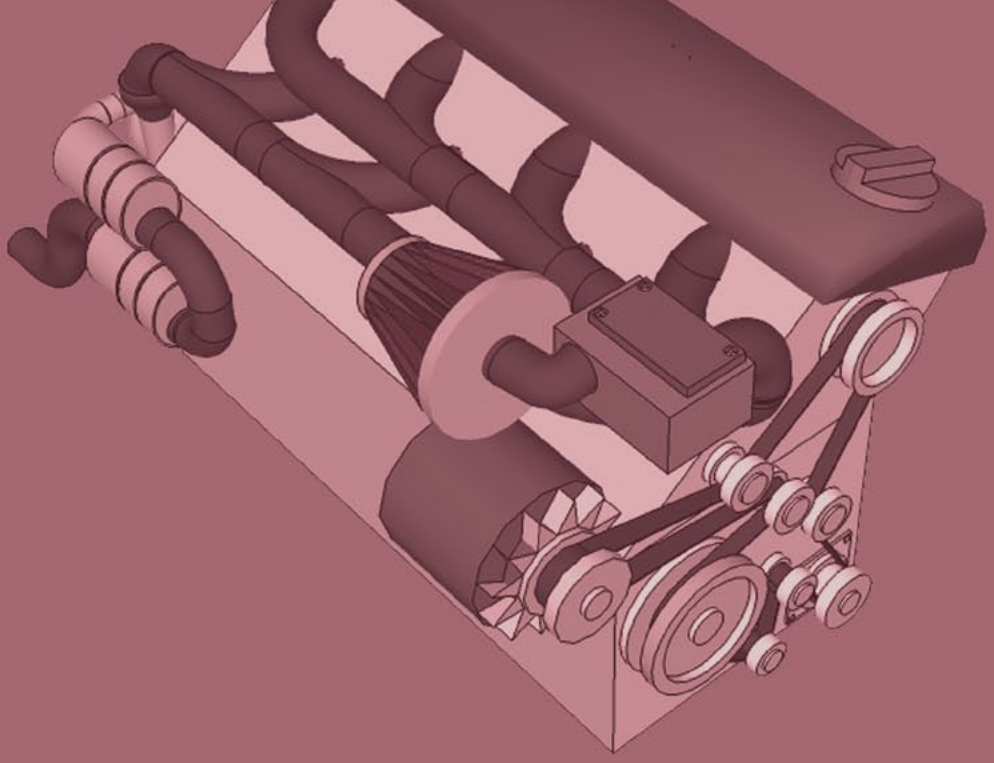
Compressibility	ASTM F36/J	%	8
Recovery	ASTM F36/J	%	50
Tensile strength	DIN 52910	Mpa	7
Stress resistance	DIN 52913		
16h, 300℃, 50MPa		Mpa	
6h, 175℃, 50MPa		Mpa	20
(Specific Leak Rate)	DIN 3535/6	mg/(s.m)	0.08
Thickness increase	ASTM F 146		
Oil IRM 903, 5h, 150℃		%	10
ASTM Fuel B, 5h, 23℃		%	10
Max. operating conditions			
Peak temperature		℃/℉	180/356
Continuous temperature		℃/℉	140/284
- with Steam		℃/℉	120/248
Pressure		bar/psi	40/580

P-T Diagram, 2mm



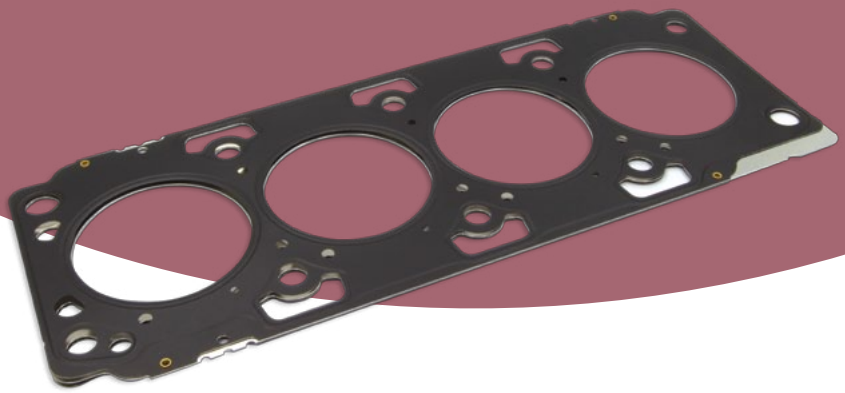
- General suitability using common installation practices under the condition of chemical compatibility
- Max. performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

The Pressure-Temperature charts are the most current method of determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since this max. values depend not only on the type of gasket material but also on the assembly conditions. Use the pressure and temperature graphs to check suitability of chosen gasket material for your application(combination of pressure and temperature).



KOREA MASTITE

AUTO MOTIVE



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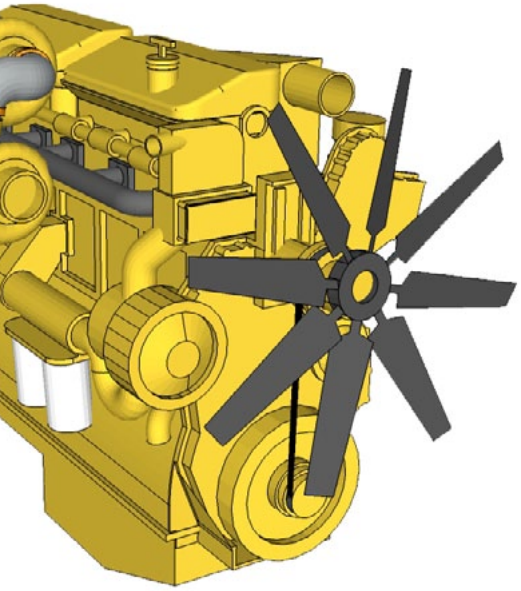
KMG AUTOMOTIVE



Considered as one of the most demanding competitive markets in the world, this industry can benchmark a companies progress.

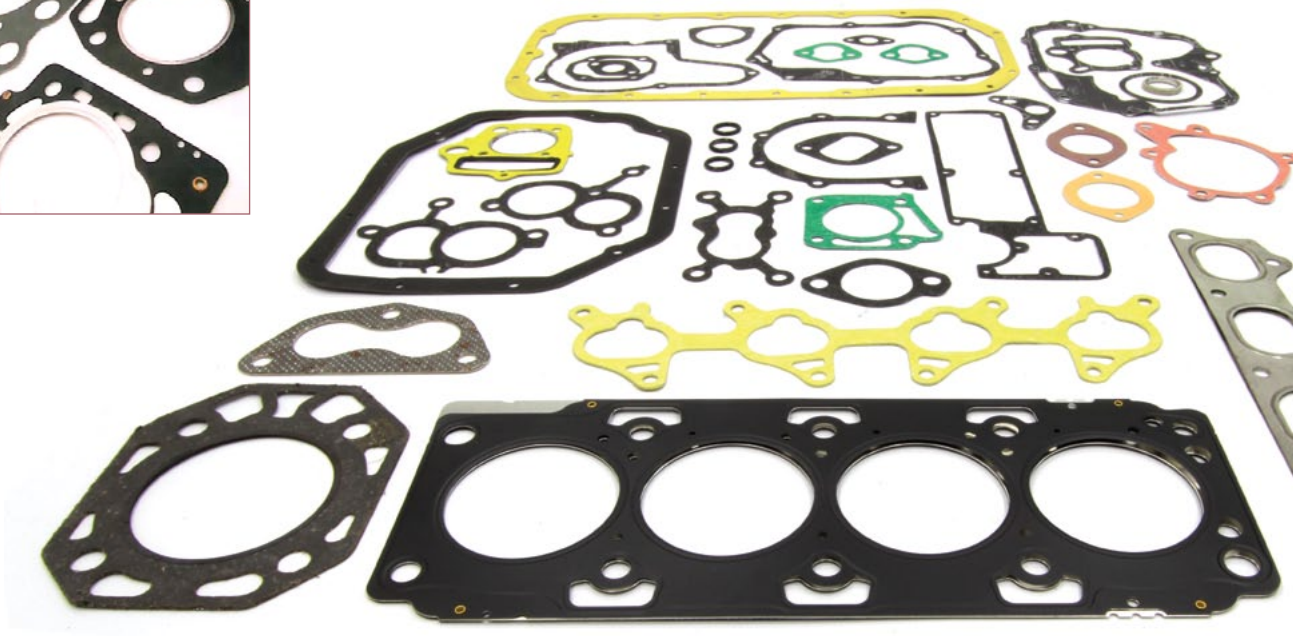
KMG Gaskets cater for all areas on a worldwide basis. Whether the application is engines or interior we can offer a solution.

Safety being paramount, materials have always been on the agenda for constant review and development, leading to a diverse stock range. In line with this KMG Gaskets have jointly developed a range of non-asbestos materials, which are exceeding industry expectations and have been approved by a major international engine producer.

Recent investments provide the means to supply gasket samples without tooling. Data can be received direct from the Engineer and high speed CNC presses allow us to meet the most strenuous schedules.

The industry requires continuous change to meet the increasing demands. KMG Gaskets policy of continuous development and steady growth will allow us to cater for this change.

Automotive



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