CIERNE®
INDUSTRIAL SERVICE

Equipment Parts

CIERNE MECHANICAL PARTS CO., LTD.

Products Index

CIERNE®
INDUSTRIAL SERVICE

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CILON 1200A

Expanded PTFE Gasket sheet

A special production process ensures equal tensile strength
in all directions. Eliminating cold flow and creep

Technical data

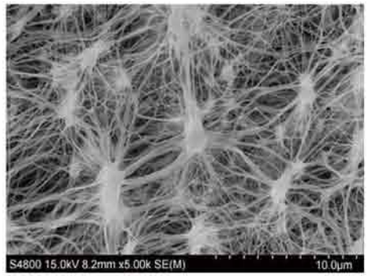
density (at delivery): ≈ 0.9 g/cm³
temperature range: -240°C -- + 270°C
short term up to +315°C
pressure: from vacuum up to 200 bar
Chemical resistance:pH 0 – 14
Size(mm): Length x Width 1500 x 1500
Thickness(mm) :0.5; 1.0; 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0

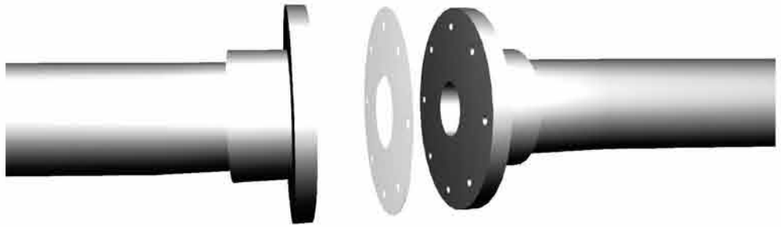
Advantages

Does not shape changing under compression
Easy to cut or punch
Suitable also for enamel flanges and/or vessels
Compensates for irregularities and/or damages on the flange faces
Has all inherent advantages of pure PTFE

Reference applications:

Liquid equipment joint seal.
Suitable for all pressure sensitive and stress sensitive connections.
Suitable for aggressive chemicals media.
Non-contaminating.
Extremely versatile for flange connections, pressure vessels, chemical reactors and/or housings of pumps, compressors etc.





CILON 1200

Self-Adhesive Expanded PTFE Tape

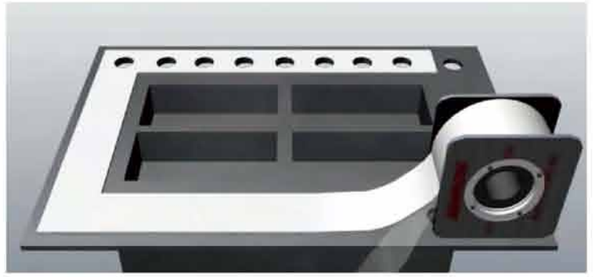
A special monoaxial stretching process from 100% pure PTFE. An adhesive strip - approved for use with foodstuffs - makes installation quick and easy.

Technical data

temperature range: -240°C-- + 270°C
pressure: from vacuum up to 200 bar
Chemical resistance: pH 0 – 14

Size:

Tape(mm): Width: 3 – 45 Thickness(mm):1.5 – 7
Rod(mm):φ≥1.5
Length: Free
If you are interesting special size, contact with us.



Reference applications:

For all kinds of flanged joints
For housings of pumps, compressors, etc.
As a lid seal for various containers and vessels
For pressure sensitive and stress sensitive joints where only a low flange load may be applied
Sealing of tube heat-exchangers
Extra large flanges, containers, lids etc
Pump housings
Inspection holes, manholes, and many more

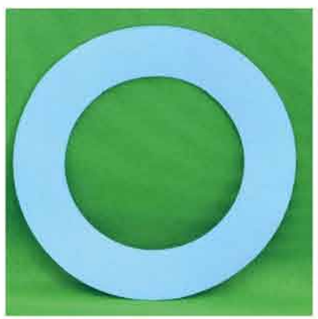
Advantages

Seal irregular face joint, out-of-parallel, damaged flange faces,
For applications where a certain remaining gasket thickness is required.
Quick and easy installation
Adhesive strip aides installation - excellent malleability compensates for irregularities
Used tape can be removed easily and without residue

All data quoted is guide values. Failure to select proper sealing products could result in property damage and/or serious injury. Data is subject to change without notice

CILON 6017

Modified PTFE Sheet
Color: Blue
Summary:
CILON 6017 is modified PTFE material which is produced by an advanced production process, material has excellent performance against creep relaxation and cold flow.
Application:
CILON 6017 is suitable for all kinds of fluids, strong acid, alkali, gas, solvent, hydrocarbon, water, chlorine, hydrogen peroxide (except hydrofluoric acid and strong alkali) with high pressure and temperature. CILON 6017 flat gasket can be applied to rigid flange joint, Plastic lining flange joint (lining PTFE and lining PO flange joint), steel lined glass flange joint and FRP flange joint.
Attention: High temperature steam is forbidden.



Supply standard:
Sheet, Gasket:
Size:1500*1500
Standard thickness: : 1.0 mm 、 1.5 mm、 2.0 mm、 3.0 mm.
Special size can be produced according to customer's request.
Color: Blue
PH value:0-14
Usage pressure: ＜10MPa
Usage temperature: －100℃～＋150℃

Item	Standard	Data
Compressibility 350bar %	ASTM F36A-99	22~25
Recovery 350bar %	ASTM F36A-99	19~23
Tensile Mpa	ASTM 152-95	11-13
Elongation at break %	ASTM 152-95	170-190
Specific Gravity g/cm3	ASTM D 792	1.9^{5}
Seal leakage rate(cm3/s)	GB/T9129-2003	$< 1x10^{-3}$
ASTM test reference to gasket thickness 2 mm; DIN test reference to gasket thickness 1.5 mm.		

CILON 6018

Modified PTFE Sheet
Color: White
Summary:
This is the soft elastomer PTFE material but different from ePTFE. According to special process modified pure PTFE structure, gasket sheet has excellent anti creep relaxation and cold flow.
Applications:
CILON 6018 is suitable for high pressure and middle temperature conditions, using harsh working conditions of various fluids, Strong acids, strong bases, gases, solvents, hydrocarbons, water, chlorine, hydrogen peroxide, hydrofluoric acid. CILON 6018 flat gasket can be applied to metal flange joint, plastic flange joint, steel lined glass flange joint, enamel pipe joint and glass steel flange joint.
Attention: High temperature steam is forbidden.

Supply standard: Sheet
Size: 1500*1500
Thickness: 1.0mm 1.5mm 2.0mm 3.0mm
Other Size on request
PH: 0 ~ 14.
Working pressure: ＜10 MPa
Use temperature: -100 ℃ ~ + 150 ℃

Item	Standard	Data
Compressibility 350bar %	ASTM F36A-99	20~28
Recovery 350bar %	ASTM F36A-99	20~25
Tensile Mpa	ASTM 152-95	11-13
Elongation at break %	ASTM 152-95	150~180
Specific Gravity g/cm3	ASTM D 792	$1.9^{\pm 0.05}$
Seal leakage rate(cm3/s)	GB/T9129-2003	$< 1x10^{-3}$
ASTM test reference to gasket thickness 2 mm; DIN test reference to gasket thickness 1.5 mm.		

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CILON 6019

Modified PTFE Sheet

Color: Light blue

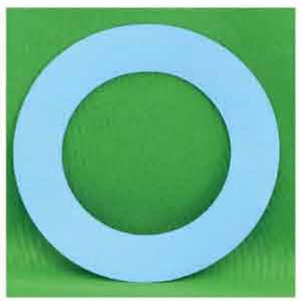
Summary:

CILON 6019 gasket sheet has excellent performance in high temperature working condition, especially in steam joint seal. CILON 6019 is the filled PTFE gasket sheet, material has excellent anti creep relaxation and cold flow.

Applications:

CILON 6019 is suitable for high pressure and temperature conditions, using harsh working conditions of various fluids, Strong acids, strong bases, gases, solvents, hydrocarbons, water, chlorine, hydrogen peroxide (except hydrofluoric acid) .

Specialized In the chemical fiber industry, polycrystalline silicon reduction furnace, flue gas desulfurization, corrosion system of high temperature chemical, pulp paper high temperature system.



Supply standard:

Sheet, gasket:

Size: .1200 * 1200 * 3; Large diameter gasket can be ordered.

Color: light blue.

PH: 0 ~ 14.

Working pressure: ＜10 MPa

Use temperature: -150 ℃ ~ + 260 ℃

Item	Standard	Data
Compressibility 350bar %	ASTM F36A-99	15~18
Recovery 350bar %	ASTM F36A-99	25~30
Tensile Mpa	ASTM 152-95	15
Elongation at break %	ASTM 152-95	250~310
Specific Gravity g/cm3	ASTM D 792	2.16
Creep Relaxation %	ASTM F38	27
Seal leakage rate(cm3/s)	GB/T9129-2003	< $1x10^{-3}$
ASTM test reference to gasket thickness 2 mm; DIN test reference to gasket thickness 1.5 mm.		

Note: 1. Large diameter gasket can be ordered. Thickness ≤8mm
2. Gasket welding point: 1-2.
3. The material of the gasket can be welded, the welding point don't use film (PFA), the strength of the weld point is over 85% of the gasket body (under 250 ℃).

CILON 6020

Modified PTFE Sheet

Color: Light blue

Summary:

CILON 6020 is similar CILON 6019, but CILON 6020 can be used in super lower temperature working condition. Gasket sheet has excellent performance in lower temperature working condition, especially in liquid oxygen, liquid nitrogen joint seal. CILON 6020 is the filled PTFE gasket sheet.

Supply standard:

Sheet, gasket:

Size: .1200 * 1200 * 3; Large diameter gasket can be ordered.

Color: Light blue.

PH: 0 ~ 14.

Working pressure: ＜10 MPa

Use temperature: -200 ℃ ~ + 260 ℃

Item	Standard	Data
Compressibility 350bar %	ASTM F36A-99	15~18
Recovery 350bar %	ASTM F36A-99	25~30
Tensile Mpa	ASTM 152-95	15
Elongation at break %	ASTM 152-95	250~310
Specific Gravity g/cm3	ASTM D 792	2.16
Creep Relaxation %	ASTM F38	27
Seal leakage rate(cm3/s)	GB/T9129-2003	< $1x10^{-3}$
ASTM test reference to gasket thickness 2 mm; DIN test reference to gasket thickness 1.5 mm.		

Note:
1. Large diameter gasket can be ordered. Thickness ≤8mm
2. Gasket welding point: 1-2.
3. The material of the gasket can be welded, the welding point don't use film (PFA), the strength of the weld point is over 85% of the gasket body (under 250 ℃).

All data quoted is guide values. Failure to select proper sealing products could result in property damage and/or serious injury. Data is subject to change without notice

Pure PTFE Sheet/Case/Rod

Polytetrafluoroethylene (PTFE) is a synthetic fluoropolymer of tetrafluoroethylene that has numerous applications.

For industry application, we often supply Skived Pure PTFE Sheet, Molded PTFE Sheet/ Rod/ Case, Extruded PTFE Rod/Tube

Technical Data

Apparent density: 2.10-2.30 g/cm3

Tensile strength :≥ 14.0 MPa

Tear elongation : ≥ 140%

Electric Strength: ≥ 10KV/MM

Application

In industrial applications, owing to its low friction, PTFE is used for applications where sliding action of parts is needed: plain bearings, gears, slide plates, etc. In these applications, it performs significantly better than nylon and acetal; it is comparable to ultra-high-molecular-weight polyethylene (UHMWPE). Although UHMWPE is more resistant to wear than PTFE, for these applications, versions of PTFE with mineral oil or molybdenum disulfide embedded as additional lubricants in its matrix are being manufactured. Its extremely high bulk resistivity makes it an ideal material for fabricating long-life electrets, useful devices that are the electrostatic analogues of magnets.

Filled PTFE Seal

Material:

Graphite filled PTFE, Glass Fiber filled PTFE, Carbon filled PTFE, Brass filled PTFE

Size: Those seals are special products, it is can be produced by drawing or samples.

Application: Rod and Piston Seal.

Item	Standard	Unit	100%PTFE	15% Glass Fiber	15% Graphite	20% Carbon	25% Carbon Graphite	60% Brass 2% Carbon
Moded Products								
Density	ASTMD792	g/cm3	2.14-2.18	2.19-2.22	2.10-2.15	2.05-2.11	2.05-2.11	3.80-3.90
Tensile strength	ASTMD4894 ASTMD4745	N/mm2	≥24	17-24	15-20	15-20	14-18	17-23
Elongation at break	ASTMD4894 ASTMD4745	%	≥250	250-300	170-250	150-200	70-120	100-160
Friction Factor	ASTMD1894	/	0.06	0.12	0.07	0.13	0.11	0.13
Hardness Shore	ASTMD2240	points	≥58	60-65	55-60	60-65	62-67	65-70
CTE	ASTMD696	1/ C 10 -5	12--13	11--13	12--13	12--13	10--12	8--9
Extruded Products								
Density	ASTMD792	g/cm3	2.14-2.18	2.18-2.21	2.09-2.14	2.04-2.10	3.04-2.10	3.80-3.88
Tensile strength	ASTMD4894	N/mm2	≥20	≥15	≥14	≥14	≥12	≥13
Elongation at break	ASTMD4745	%	≥200	≥200	≥70	≥100	≥50	≥80
Hardness Shore	ASTMD2240	points	51-60	60-65	55-60	60-65	62-67	65-70

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Spiral Wound Gasket

Application:

Static sealing element of pipe, valve, pump, thermal exchange, condensing tower, plain hole and man hole of flange, etc.

Industry:

petrochemical, mechanical manufactory, power station, metallurgy, shipbuilding, medical and pharmaceutical nuclear power station and navigation, etc.

Spiral Wound Gaskets can be used to seal fluid pressure up to 250 bar cryoprnices temperature as low as -200°C and up to elevated temperature of 1000°C.

Spiral Wound Gasket Dimensions per

ASME B16.20 for ASME B16.5 Flanges

ASME B16.20 for ASME B16.47 Series A

ASME B16.20 for ASME B16.47 Series B

Style 911 for Male and FemaleASME B16.5 Flanges

STYLE	Name	Section Plane
GHS-A	Basic type	
GHS-B	With inner ring	
GHS-C	With outer ring	
GHS-D	With inner &outer ring	

RING MATERIAL	FILLER MATERIAL
S 1400	Asbestos
SS 304	Graphite
SS 316	PTFE
SS 316L	Non-Asbestos Fiber
SS 310S	Ceramic Fiber
SS 321	
SS 320S17	
SS 304L	

GHS-A

GHS-B

GHS-C

GHS-D

Reinforced Graphite Gasket

Reinforced Graphite Gasket **DP5151**

Description: Reinforced Graphite Gasket

Main material: Graphite, Stainless Steel Punched Plate

INTRODUCTION:

Expanded graphite gasket are punched orcut from pure expanded graphite sheet and reinforced expanded graphite sheet. Depend on its excellent corrosion resistance, high and low temperature resistance, good compression

resilient and high intensity. All kinds of circular, complicated geometric gasket are widely used in pipe, valve, pump, pressure vessel, thermal exchanger, condenser, engine, air compressor, exhaust tube, refrigerating machine, etc.

Item	Unit	Value
Pressure	Mpa	20
Compressibility	%	15~35%
Resilience	36 %	≥20%
Leakage rate	ASTMF-37 cm3/s	1.5×10-3
Temperature (Long-term working)	℃	-240~550

All data quoted is guide values. Failure to select proper sealing products could result in property damage and/or serious injury. Data is subject to change without notice

DP8700

Description: Non-Asbestos Gasket Sheet
Main material: High-temperature resistance fiber, inorganic fibers, rubber..
Standard size (mm):1270*1270, 1270*2000, 1270*3810, 1500*1500, 1500*2000, 1500*4000,1500*4500
Thickness (mm): 0.5/0.8/1.0/1.5/2.0/3.0/4.0/5.0
Tolerance: Thickness: ±10%, length & width:±50mm

Technical data

Item	Standard	Unit	Data
Density	—	g/cm3	1.95
Tensile strength	ASTM F152	MPa	≥10
Tensile strength	ASTM F36J	%	5~10
Resilience	ASTM F36J	%	≥45
Stress relaxation DIN 52913	16h 300°C	MPa	30
Leakage rate	DIN3535/4	ml/min	≤0.5
ASTM3# oil 150℃/5h	W growth	%	≤10
	T growth	%	≤15
ASTM Fuel oil B 23℃/5h	W growth	%	≤10
	T growth	%	≤15
Water / antifreeze 1:1 100℃/5小时	W growth	%	≤5
	T growth	%	≤10
Workin Temperature	Short / continuous	℃	1000/-40～700
Working Pressure	Max	Bar	≤110

Application:
Mainly used in seal oil , water, gas , steam, weak acid and general chemical media

Remark:
1.Test material is based on 1.5mm thickness;
2.The maximum temperature and maximum pressure can't be reached same time
3.Working temperature and pressure decreases against thickness increasing

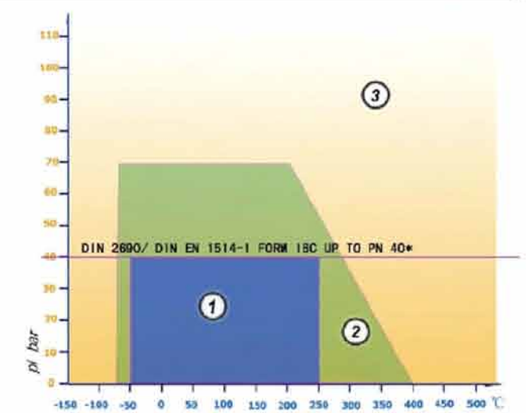
DP8010

Description: Oil Resistance Non-asbestos Sheet
Main material: Aramid fiber, composite fiber, NBR rubber.
Standard size (mm):1270*1270, 1270*2000, 1270*3810, 1500*1500, 1500*2000, 1500*4000,1500*4500
Thickness (mm): 0.5/0.8/1.0/1.5/2.0/3.0/4.0/5.0
Tolerance: Thickness: ±10%, length & width:±50mm
Technical data:

Item		Unit	Value
Density		g/cm3	1.8~1.9
Tensile strength		ASTMF-152 Mpa	≥7.0
Compressibility		ASTMF-36 %	7~17
Resilience		ASTMF-36 %	≥40
Creep relaxation rate		N/mm²	≤30
Leakage rate		ASTMF-37 cm3/s	1.5×10^{-3}
Oil resistance	ASTM3# oil 150℃／5h	(ASTMF-146) %	≤10
Thickness growth	ASTM Fuel oil B 23℃／5h	(ASTMF-146) %	≤15
Temperature (Long-term working)		℃	200-250
Top Temperature			400

Application:
Tap water; hot water; Industrial water; seawater; atmosphere; medium acid, medium alkali, oil.

1. **the gasket material is normally suitable subject to chemical compatibility.**
2. **the gasket materials may be suitable but a technical evaluation is recommended.**
3. **do not install the gasket without a technical evaluation. Always refer to thechemical resistance of the gasket to the fluid.**



Function & Durability

The performance and service life of Cierne gaskets depend in large measure on proper storage and fitting, factors beyond the manufacture's control. We can, however, vouch for the excellent quality of our products. With this in mind, please also observe our installation instructions.

All data quoted is guide values. Failure to select proper sealing products could result in property damage and/or serious injury. Data is subject to change without notice

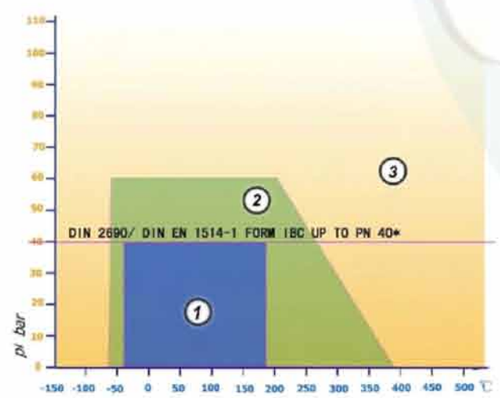
DP8010A

Description: Oil Resistance Non-asbestos Sheet
Main material: Aramid fiber, composite fiber, NBR rubber.
Standard size (mm):1270*1270, 1270*2000, 1270*3810, 1500*1500, 1500*2000, 1500*4000,1500*4500
Thickness (mm): 0.5/0.8/1.0/1.5/2.0/3.0/4.0/5.0
Tolerance: Thickness: ±10%, length & width:±50mm
Technical data:

Item		Unit	Value
Density		g/cm3	1.8~1.9
Tensile strength		ASTMF-152 Mpa	≥6.0
Compressibility		ASTMF-36 %	7~17
Resilience		ASTMF-36 %	≥40
Creep relaxation rate		N/mm²	≤30
Leakage rate		ASTMF-37 cm3/s	1.5×10^{-3}
Oil resistance	ASTM3# oil 150℃／5h	(ASTMF-146) %	≤10
Thickness growth	ASTM Fuel oil B 23℃／5h	(ASTMF-146) %	≤15
Temperature (Long-term working)		℃	150~180
Top Temperature			350

Application:
Tap water; hot water; Industrial water; seawater; atmosphere; medium acid, medium alkali, oil.

1. **the gasket material is normally suitable subject to chemical compatibility.**
2. **the gasket materials may be suitable but a technical evaluation is recommended.**
3. **do not install the gasket without a technical evaluation. Always refer to thechemical resistance of the gasket to the fluid.**



Function & Durability

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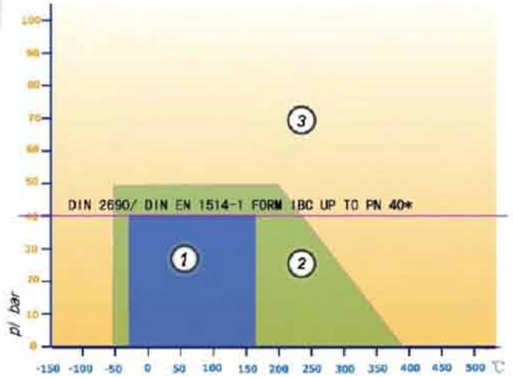
DP8000

Description: Oil Resistance Non-asbestos Sheet
Main material: Aramid fiber, organic fibers, NBR rubber.
Standard size (mm):1270*1270, 1270*2000, 1270*3810, 1500*1500, 1500*2000, 1500*4000,1500*4500
Thickness (mm): 0.5/0.8/1.0/1.5/2.0/3.0/4.0/5.0
Tolerance: Thickness: ±10%, length & width:±50mm
Technical data:

Item		Unit	Value
Density		g/cm3	1.9-2.0
Tensile strength		ASTMF-152 Mpa	≥5.0
Compressibility		ASTMF-36 %	7~17
Resilience		ASTMF-36 %	≥35
Creep relaxation rate		N/mm²	≤45
Leakage rate		ASTMF-37 cm3/s	1.5×10^{-2}
Oil resistance	ASTM3# oil 150℃／5h	(ASTMF-146) %	≤10
Thickness growth	ASTM Fuel oil B 23℃／5h	(ASTMF-146) %	≤15
Temperature (Long-term working)		℃	150~180
Top Temperature			350

Application:
Tap water; hot water; Industrial water; seawater; atmosphere; medium acid, medium alkali, oil.

1. **the gasket material is normally suitable subject to chemical compatibility.**
2. **the gasket materials may be suitable but a technical evaluation is recommended.**
3. **do not install the gasket without a technical evaluation. Always refer to thechemical resistance of the gasket to the fluid.**



Function & Durability

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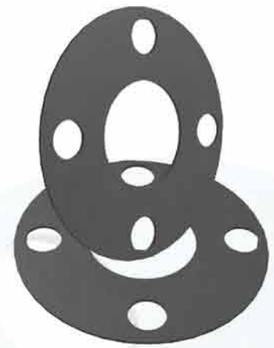
Carbon Fiber / Graphite Filled Non-Asbestos Gasket Sheet

Style DP5060

Non asbestos gasket sheet Carbon Fiber Filled



Resolving leakage problem in high temperature and high pressure working condition, DP5060 is the best choosing, gasket sheet composites with carbon fiber and NBR.And it is more easy installed and uninstalled when equipment repair.

Normal Color: Black

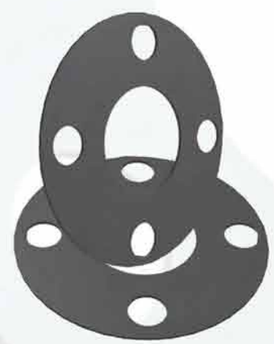
Normal Size(mm): 1270*3810 1270*1270 1500*4000 1500*2000 1500*1000 1500*4500 1500*1500

(Width * Length, Tolerance +20~50mm)

Thickness(0.5 - 5.0)

Style DP5050A

Non asbestos gasket sheet Graphite Filled



In order to resolving high temperature working condition, we fill graphite material in Non asbestos gasket sheet (DP8010), and it is more easy installed and uninstalled when equipment repair.

Normal Color: Black

Normal Size(mm): 1270*3810 1270*1270 1500*4000 1500*2000 1500*1000 1500*4500 1500*1500 (Width * Length, Tolerance +20~50mm)

Thickness(0.5 - 5.0)

Technical Data:

	Style	DP5050A	DP5060
TOP Temperature	℃	MAX 450	MAX 450
Density	g/cm3	1.65-1.75	1.65-1.75
Tensile strength	ASTMF-152 Mpa	≥7.0	≥10
Compressibility	ASTMF-36 %	7~17	7~12
Resilience	ASTMF-36 %	≥45	≥40
Creep relaxation rate	N/mm²	≤30	≤28
Leakage rate	ASTMF-37 cm3/s	$1.5*10^{-3}$	$1.5*10^{-3}$
Mail Material		Graphite,Aramid fiber, Synthetic Fiber,Nitrile Binder	Carbon Fiber,Nitrile Binder

Remark:

1.Test material is based on 1.5mm thickness;

2.The maximum temperature and maximum pressure can not be reached same time.

3.Working temperature and pressure decreases against thickness increasing.

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Style GH1382
Expanded PTFE with Graphite Packing

Style GH1382	Working Conditions
Temperature (ºC)	-240—288
Pressure (Bar)	131
Velocity (m/s)	19.3
PH	0-14

Composition:PTFE, Graphite, braided

Application:

Similar as Style 1389, and it can replaced Style 1389, but almost the same function. Chemical, paper,dye and fertilizer industries. Water, steam, oils, solvents, salts, acids and alkalies except for very strong oxidants.

Equipment:

The packing is recommended to be used in pump and fittings glands, centrifugal pump, mixer, agitator,stern tube, etc.

Size:3×3mm--50×50mm； Others can be produced according to client's requirement

Style GH1389
100%GFO Packing

Style GH1389	Working Conditions
Temperature (ºC)	-240—288
Pressure (Bar)	131
Velocity (m/s)	21.8
PH	0-14

Composition:100% GORE® GFO® fiber

Application:

Chemical, paper, dye and fertilizer industries. Water, steam, oils, solvents, salts, acids and alkalies except for very strong oxidants

Equipment:

The packing is recommended to be used in pump and fittings glands, centrifugal pump, mixer, agitator,stern tube, high-speed pumps etc.

Size:3×3mm--50×50mm； Others can be produced according to client's requirement

Style GH1890
Pure PTFE Packing

Style GH1890	Working Conditions
Temperature (ºC)	-100—260
Pressure (Bar)	100
Velocity (m/s)	10
PH	0-14

Composition: Pure PTFE yarn braided

Application:

Chemical, engineering, foodstuff, pharmaceutic industry where contamination is not allowed. Water,steam, oils, fuels, solvents, acids and alkalies except for strong oxidants

Equipment:

An universal packing for valves, impeller pumps, piston pumps, flange, etc.

Size:3×3mm--50×50mm； Others can be produced according to client's requirement

Style GH1891
PTFE Packing with lubricating oil

Style GH1891	Working Conditions
Temperature (ºC)	-100—260
Pressure (Bar)	100
Velocity (m/s)	10
PH	0-14

Composition: Pure PTFE yarn, PTFE, lubricating oil braided

Application:

Chemical engineering, foodstuff, pharmaceutic industry where high purity and corrosion resistance is required. Water, steam, oils, fuels, solvents, acids and alkalies except for strong oxidants.

Equipment:

An universal packing for valves ,impeller pumps, piston pumps, flange, etc.

Size:3×3mm--50×50mm； Others can be produced according to client's requirement

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Style GH1895

PTFE Packing with Rubber Core

Style GH1895	Working Conditions
Temperature (ºC)	260
Pressure (Bar)	200
Velocity (m/s)	22
PH	0-14

Composition: PTFE yarns, silicone rubber core, braided

Application:

It is most useful in slower shaft speed applications. The rubber core provides a low friction finish and prevents leakage through the braid. Chemical, paper, dye and fertilizer industries. Steam, fuels, water,dilute acids and alkalies, organic compounds, oils, greases and solvents, etc.

Equipment:

High elastic red silicone rubber core can absorb vibration, to control leakage, suitable for worn-out pumps.Centrifugal pump, mixer, agitator, stern tube. Etc.

Size:3×3mm--50×50mm; Others can be produced according to client's requirement

Style GH1311

Arcylic Fiber Packing

Style GH1311	Working Conditions
Temperature (ºC)	-100—260
Pressure (Bar)	100
Velocity (m/s)	20
PH	1-13

Composition: Arcylic Fiber, PTFE

Application:

Excellent multi-service for a wide variety of uses throughout a plant. Used in pumps and valves, and can handle most chemicals except strong acid, strong alkali and strong oxidizer. Especially for the condition of middle temp. high-pressure, high-speed,and where contamination is not permitted.

Equipment:

An universal packing for valves ,impeller pumps, piston pumps, Reciprocating pumps flange, etc.

Size:3×3mm--50×50mm; Others can be produced according to client's requirement.

Style GH1392

Kynol Fiber Packing

Style GH1392	Working Conditions
Temperature (ºC)	-200—260
Pressure (Bar)	200
Velocity (m/s)	20
PH	1-13

Composition: KynolTM, PTFE lubricant

Application: Suitable for abrasive media, and where contamination is not permitted. It has multiple uses in chemical plants and pulp and paper mills, and is regularly used in rotating and reciprocating pumps, washer journals, liquor pumps, refiners and digesters. Applications where graphite impregnation may not be acceptable. Equipment: Pulp factory, sand slurry tin mine and feed water pump of power plant etc.

It has very good mechanical properties combining softness and strength. The packing has natural golden sheen.

Advantage: Thermal stability, low heat expansion; High dimensional stability and superior pressure resistance even at elevated temperature; Good process-ability, easy to cut and fit; Outstanding chemical resistance particularly in acidic media; Excellent resistance to organic solvents, oil and fuels.

COMPARISON:

Cierne	Chesterton	Latty	Teadit	Utex	Speco	Jeil
GH1392	1727	7188	2777	248	2250	3078

Size:3×3mm--50×50mm; Others can be produced according to client's requirement.

Style GH1895

Style GH1311

Style GH1392

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Style GH1882

Aramid / Kevlar Packing (Nomex Fiber Packing)

Style GH1882	Working Conditions
Temperature (ºC)	-100 - 250
Pressure (Bar)	100
Velocity (m/s)	20
PH	1-13

Composition: Nomex Fiber, PTFE

Application:

A universal, wear-resistant packing that is nevertheless gentle to shaft surface. Designed specially for pumps, agitators, mixers, kneaders, refiners etc. It's excellently suitable for standardization in entire industrial sectors, e.g. pulp and paper, sugar production, breweries, sewage systems, water conditioning for power stations, for cooling water and abrasive river water, in turbine oil circuits, and other areas requiting a clean, and easy-to-install packing.

Equipment:

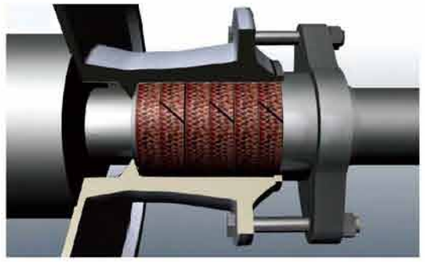
Kevlar gland Packing is usually applied to pulp factory, sand slurry tin mine and feed water pump of power plant etc. Braided from high quality Dupont spun Nomex yarns with PTFE-Impregnation and lubricant additive. High cross-sectional density and structural strength, good sliding characteristic, gentle on shaft surfaces. Compared to Kevlar, it do not hurt shaft, also ideal for food industries.

Size:

3×3mm--50×50mm；Others can be produced according to client's requirement.

Kevlar Corner Packing

Style 1340/1359



Style GH1340/1359		Working Conditions
Temperature (ºC)		-23—260
Pressure (Bar)	GH1340	103
	GH1359	310
Velocity (m/s)	GH1340	11.7
	GH1359	13.7
PH	GH1340	2-12
	GH1359	3-11

GH1340: White PTFE with Aramid Corner Pacing

GH1359: Black PTFE with Aramid Corner Pacing

Composition:

Carbon, Kevlar, PTFE, braided

Application:

Chemical, paper, dye and fertilizer industries. Steam, fuels, water, dilute acids and alkalies, organic compounds, oils, greases and solvents, etc.

Equipment:

Centrifugal pump, mixer, agitator, stern tube. etc.

Size:

3×3mm--50×50mm；Others can be produced according to client's requirement

Style GH1359

Style GH1340

Style GH1882

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Style GH1588
Carbon Fiber Packing

Style GH1588	Working Conditions
Temperature (ºC)	-240—650
Pressure (Bar)	276
Velocity (m/s)	18
PH	2-13

Composition:

Carbon Fiber, Graphite, PTFE, braided

Application:

Chemical industry – for aggressive media pumping;
Power industry – for sealing of high-temperature pumps feeding the boilers;
Petrochemical industry – resistance to oils and hydrocarbons. Water, brine,
factory waste, salt solutions, weak acid, mineral oil, etc.

Equipment:

Centrifugal pump, mixer, agitator, stern tube, etc.

Size:

3×3mm--50×50mm; Others can be produced according to client's requirement

Style GH1661
Carbonized Fiber Packing

Style GH1661	Working Conditions
Temperature (ºC)	450
Pressure (Bar)	300
Velocity (m/s)	16
PH	2-12

Composition:

Carbonized Fiber, PTFE, braided

Application:

Chemical industry – for aggressive media pumping;
Power industry – for sealing of high-tempera-turepumps feeding the boilers;
Petrochemical industry – resistance to oils and hydrocarbons. Water, brine,
factory waste, salt solutions, weak acid, mineral oil, etc.

Equipment:

Centrifugal pump, mixer, agitator, stern tube, etc.

Size:3×3mm--50×50mm; Others can be produced according to client's requirement

Style GH5080
Graphite Packing with Carbon Fiber Corner

Style GH5080	Working Conditions
Temperature (ºC)	-184--649
Pressure (Bar)	241
Velocity (m/s)	30.5
PH	0-14

Composition:

Graphite, Carbon Fiber, braided

Application:

Chemical industry – for aggressive media pumping;
Power industry – for sealing of high-temperature pumps feeding the boilers;
Petrochemical industry – resistance to oils and hydrocarbons. Water, brine,
factory waste, salt solutions, weak acid, mineral oil, etc.

Equipment:

Centrifugal pump, mixer, agitator, stern tube, etc.

Size:

3×3mm--50×50mm; Others can be produced according to client's requirement

Style GH1588

Style GH1661

Style GH5080

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Style GH1853
Graphite Packing Reinforced with Inconel Wire

Style GH1853	Working Conditions
Temperature (ºC)	650°C Steam 450°C Oxidizing condition -240°C Cryogenics
Pressure (Bar)	450
Velocity (m/s)	20
PH	0-14

Composition:

graphite, Inconel wire braided

Application:

Chemical industry (for aggressive media pumping) , power industry (for sealing of high-temperature pumps feeding the boilers), petrochemical industry(resistance to oils and hydrocarbons).

Equipment:

Used in valves at very high temperatures and in contact with steam, oils, hot water, acids,hydrogen gas, ammonia, olvents, hydrocarbons, cryogenic liquids except for strong oxidants, etc.

Size:3×3mm--50×50mm；Others can be produced according to client's requirement

Style GH1855
Inconel Mesh Jacketed Graphite Filament Packing

Style GH1855	Working Conditions
Temperature (ºC)	650°C Steam 450°C Oxidizing condition -240°C Cryogenics
Pressure (Bar)	450
Velocity (m/s)	20
PH	0-14

Composition:

graphite, Inconel wire mesh jacketed Graphite Filament

Application:

Hot water, high temperature and pressure steam, hydrogen gas, hydrocarbons, cryogenic liquids. etc.-Petrochemical, power, chemical, mining industry.

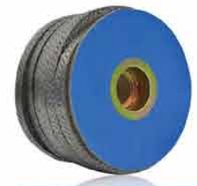
Equipment:

Valve

Size:

3×3mm--50×50mm；Others can be produced according to client's requirement

Style GH1851
Expanded Graphite Braided Packing



Style GH1851		Working Conditions
Temperature (ºC)	Atmosphere	-210—450
	Steam	Up to 650
Velocity (m/s)		20
Pressure (Bar)	Pump	27.5
	Valve	450
PH		0-14

Composition:

expanded graphite braided

Application:

Textile, power, chemical and mining industries. The products are almost suitable to all media, such as water, dilute acids and alkalies, organic compounds, oils and greases, etc.

Equipment:

An universal packing for piston,impeller pumps,flange, etc

Size:3×3mm--50×50mm；Others can be produced according to client's requirement

Style GH1853

Style GH1855

Gland Packing Set

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Style GH4000

Asbetos Packing with PTFE

Style GH4000	Working Conditions
Temperature (ºC)	-100—260
Pressure (Bar)	100
Velocity (m/s)	12
PH	2-12

Composition: Asbestos, PTFE

Application:

Long fiber white asbestos impregnated with PTFE. It has anticorrosive and long service properties. Static and dynamic sealing -- Especially suitable for a wide range of applications for large rotary pumps in the medium pressure range.

Size:3×3mm--50×50mm； Others can be produced according to client's requirement.

Style GH4500

Asbetos Packing with Graphite

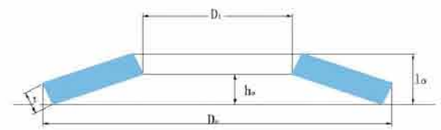
Style GH4500	Working Conditions
Temperature (ºC)	-100—450
Pressure (Bar)	80
Velocity (m/s)	10
PH	3-11

Composition: Asbestos, graphite, oil

Application:

Dynamic sealing--To be used as a stuffing box in pumps (especially boiler feed pumps) and in valves. Resistant to alkaline solutions, inert fluids, steam, gases, hot water and salt solutions. It has a good elasticity and very good sliding properties.

Size:3×3mm--50×50mm； Others can be produced according to client's requirement.



About Disc Spring

It has a frusta-conical shape which gives the washer a spring characteristic.
Through a unique combination of high force in a small space, Belleville washer can be used as single disc or arranged in stacks. A spring stack can consist of either single spring or parallel spring sets. Manufactured to DIN 2093 standard and non-standard. Design programmed to assist customers for their specified applications. The method of heat treatment is particularly effective for springs, as it gives the maximum toughness and therefore considerable durability.

Normal Material:

5CrV4/60Si2Mn/X 10 CrNi 18-8/X 7 CrNiAl 17 7/X 5 CrNiMo 17 12 2/X 22 CrMoV 12 1/X 39 CrMo 17-1/CuSn 8/CuBe 2/NIMONIC 90/INCONEL X 750/INCONEL 718/INCO-NEL625
Etc.

Advantages:

- Consistent performance under design loads
- A wide range of load/deflection characteristics
- High load capacity with small deflection
- Longer fatigue life
- Space savings – high load to size ratio
- Inherent dampening especially with parallel stacking
- Flexibility in stack arrangement to meet your application

Application:

- Vibration isolation etc
- Machine tool clamping components
- Boiler suspension systems in power station
- Safety valve
- Overload protection in electric transformers
- Couplings
- Safety brakes for lifts and elevators
- Brakes for construction and railway vehicles
- Backlash compensation for ball bearings
- Automatic transmission
- Overload clutches
- Clutches, etc.
- Adapted to the specific installation requirements in clutches/gearboxes

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ePTFE Composite Filter Media (ePTFE Membrane Laminated)

Material Summary:

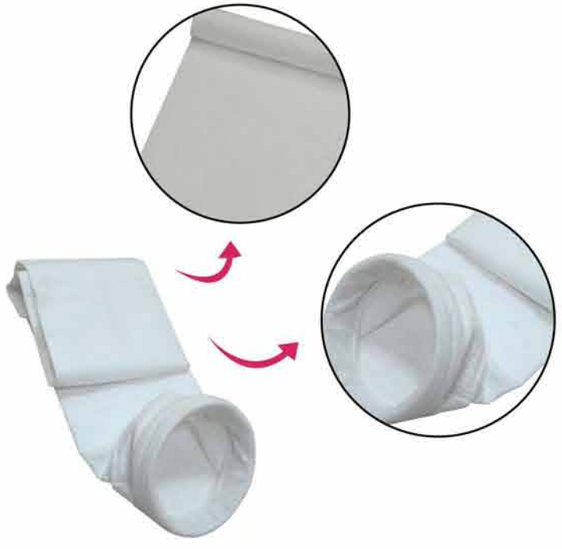
ePTFE Composite Filter Media is made of various reliable fabric materials with e-PTFE membrane laminated. It is stability chemical and durability traps micron particles moisture vapor permeability and waterproof.

Material Characteristic:

Widely pH range, excellent air permeability, good dust capacity, high efficiency, special antibacterial performance and dust removal,
durability.

Application:

Applied to dust removal in high temperature working condition, such as metallurgy, cement, food, medical treatment, machinery, power energy, garbage incineration, tobacco industry etc. ; Filter device greatly improve the filter efficiency, that is the best way to enhance the efficiency and save cost.



Specification:

STYLE		FM-PET-500N	FM-ACR-500N	FM-ARA-500N	FM-GLF-350W	FM-GLF-750W	FM-ARA-320W	FM-PTFE-800N-W	FM-PTFE-800N-B	STYLE	
COMPOSITION	LAMINATED	ePTFE MEMBRANE	ePTFE MEMBRANE	ePTFE MEMBRANE	ePTFE MEMBRANE	ePTFE MEMBRANE	ePTFE MEMBRANE	ePTFE MEMBRANE	ePTFE MEMBRANE	COMPOSITION	LAMINATED
	BASIC FABRIC	PET NON WOVEN	ACRYLIC NON WOVEN	ARAMID NON WOVEN	GLASS FIBER WOVEN	GLASS FIBER WOVEN	ARAMID WOVEN	100%PTFE WHITE NON WOVEN FABRIC	100%PTFE BROWN NON WOVEN FABRIC		BASIC FABRIC
GRAMMAGE (g/㎡)		500±30	500±30	500±30	350±30	750±50	315±20	800±50	800±50	GRAMMAGE (g/㎡)	
THICKNESS (mm)		1.8±0.1	2.5±0.1	2.0±0.1	0.4	0.8-0.9	0.6	1.3±0.1	1.3±0.1	THICKNESS (mm)	
AIR PERMEABILITY L/㎡/s,127Pa)		22～45	22～45	22～45	22～40	22～40	22～40	22～35	22～35	AIR PERMEABILITY L/㎡/s,127Pa)	
BREAKING STRENGTH	LONGITUDINAL	1800 (N/5cm)	700 (N/5cm)	850 (N/5cm)	1700 (N/2.5cm)	2300 (N/2.5cm)	>2900 (N/5cm)	760 (N/5cm)	760 (N/5cm)	BREAKING STRENGTH	LONGITUDINAL
	HORIZONTAL	1600 (N/5cm)	700 (N/5cm)	850 (N/5cm)	1200 (N/2.5cm)	1900 (N/2.5cm)	>1900 (N/5cm)	760 (N/5cm)	760 (N/5cm)		HORIZONTAL
ELONGATION AT BREAK	LONGITUDINAL	<35%	<50%	<40%	20kg/㎡	56kg/㎡	56kg/㎡	<15%	<15%	ELONGATION AT BREAK	LONGITUDINAL
	HORIZONTAL	<35%	<50%	<40%				<15%	<15%		HORIZONTAL
TEMPERATURE	LONG TIME	120℃	125℃	200℃	260℃	260℃	200℃	250℃	250℃	TEMPERATURE	LONG TIME
	SHORT TIME	150℃	140℃	204℃	280℃	280℃	204℃	280℃	280℃		SHORT TIME
	SHRINKAGE (%)	<1.0% (150℃ 90min)	<1% (140℃ 90min)	<3% (204℃ 90min)	<1% (260℃ 30min)	<1% (260℃ 30min)	<1% (200℃ 30min)	<3% (250℃ 30min)	<3% (250℃ 30min)		SHRINKAGE (%)

Material Summary:

PTFE Filter Media can works in high temperature (260℃) condition, and against acidic and alkaline situation, This material has a long life service and excellent anti-chemical property, widely used in kinds of filter.

Material Characteristic:

Widely pH range and high temperature(260℃) working condition, excellent air permeability, good dust capacity, high efficiency,
special antibacterial performance and dust removal,
durability.

Application:

Widely used in the chemical corrosion and heat corrosion of flue gas dusting conditions, such as medical treatment, industrial waste and hazardous waste incineration flue gas system, titanium dioxide, gypsum, etc. chemical products of micronized, milling, recycling system. It is an indispensable material for environmental protection and recycling of waste materials.

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