

*PILLAR*

# PILLAR MECHANICAL PACKINGS







**NIPPON PILLAR  
PACKING CO., LTD.**

GPLC9694K

# CLEAN & SAFETY with PILLAR PACKINGS.

## Applications and performance

● 1st recommendation  
○ 2nd recommendation

Pillar style No.	Main materials	Performance (* 1)					Main applications					Color	Page
		Temp (℃)	Press(MPa)		Velocity (m/s)	PVvalue (MPa·m/s)					Others		
			Pump	Valve & Recipro- cating pump									
No.6610(N)	Pillarfoil® (Pure graphite)	(*2) 600 (1110°F)	—	43.1 (6250psi)	—	—				●		Black	5
No.6610CL	Pillarfoil® (Pure graphite)	(*2) 400 (750°F)	—	77.6 (11250psi)	—	—				●		Black	5
No.6610CH	Pillarfoil® (Pure graphite)	(*2) 600 (1110°F)	—	77.6 (11250psi)	—	—				●		Black	5
No.6616(N)	Pillarfoil® (Pure graphite)	(*2) 600 (1110°F)	—	43.1 (6250psi)	—	—				●	Sootblowers	Black	5
(*3) No.6616CL	Pillarfoil® (Pure graphite)	(*2) 400 (750°F)	—	77.6 (11250psi)	—	—				●		Black	5
(*3) No.6616CH	Pillarfoil® (Pure graphite)	(*2) 600 (1110°F)	—	77.6 (11250psi)	—	—				●		Black	5
No.6710(N)	Pillarfoil® & Inconel wire	(*2) 600 (1110°F)	—	43.1 (6250psi)	—	—				●		Black	6
No.6710CL	Pillarfoil® & Inconel wire	(*2) 400 (750°F)	—	77.6 (11250psi)	—	—				●		Black	6
No.6710CH	Pillarfoil® & Inconel wire	(*2) 600 (1110°F)	—	77.6 (11250psi)	—	—				●		Black	6
EDP17	Pillarfoil® (Pure graphite) Pillarfoil® & Inconel wire	(*2) 600 (1110°F)	—	43.1 (6250psi)	—	—				●		Black	3
EDP15	Pillarfoil® & Stainless wire	(*2) 400 (750°F)	—	15.5 (2200psi)	—	—				●		Black	3
EDP19	PTFE & carbon fiber	260 (500°F)	—	10.3 (1400psi)	—	—				●		Bl & Wh	3
No.6315CH	Pillarfoil® & Stainless wire	(*2) 600 (1110°F)	—	25.9 (3700psi)	—	—				●		Black	4
No.6315	Pillarfoil® & Stainless wire	450 (850°F)	—	15.5 (2200psi)	—	—				●		Black	—
No.6711(N)	Pillarfoil® & Inconel wire	(*2) 600 (1110°F)	—	25.9 (3700psi)	—	—				●		Black	4
No.6720(N)	Pillarfoil® & PTFE fiber	(*2) 400 (750°F)	—	15.5 (2200psi)	—	—				●		Black	—
No.6722	Pillarfoil® & Aramid fiber	350 (660°F)	—	10.3 (1400psi)	—	—			○	●	Sootblowers	Black	—
No.6766	Pillarfoil® & Stainless wire	400 (750°F)	—	—	—	—				●	Manholes	Black	—
No.6118	Pillarfoil® & Stainless wire	350 (660°F)	—	10.3 (1400psi)	—	—				●		Black	—
No.6114	Pillarfoil® & organicfiber	(*2) 400 (750°F)	—	5.2 (754psi)	—	—				●	Manholes	Black	—
No.6528	Carbon fiber	500 (930°F)	—	43.1 (6250psi)	—	—				●	Sootblowers	Black	4
No.4525	PTFE fiber	260 (500°F)	—	10.3 (1400psi)	—	—				●	●	White	—
No.4545	PTFE fiber	260 (500°F)	—	15.5 (2200psi)	—	—	○	○	○	○	Big-Size Rotary Machine	White	—

(\* 1) The values for pump application show conditions less than 80℃(176°F) fluid temperature.  
Cooling is needed in case fluid temperature over 80℃(176°F).  
(\* 2) The above temperature show max fluid temperature each gland packing is used.  
(\* 3) The height of Pillar style No.6616CL and 6616CH is more than 6.5mm.  
Please use Pillar style No.6610CL and 6610CH in case height under 6.5mm.  
(\* 4) Pillarfoil® is the trade name of expanded graphite developed by Nippon Pillar.

## Applications and performance

● 1st recommendation  
○ 2nd recommendation

Pillar style No.	Main materials	Performance (*1)					Main applications					Color	Page
		Temp (°C)	Press(MPa)		Velocity (m/s)	PV value (MPa·m/s)					Others		
			Pump	Valve & Recipro- cating pump									
No6501L	Carbonized fiber	200 (390°F)	1.0 (145psi)	5.2 (754psi)	20	9.8	●	○	●	○	Stern tubes	Black	9
No6502L	Carbonized fiber	200 (390°F)	1.2 (174psi)	5.2 (754psi)	10	9.8	●					Black	—
No6507	Carbon fiber	260 (500°F)	1.0 (145psi)	10.3 (1400psi)	10	7.8	○		○	○		Bl & Wh	—
No6521L	Carbonized fiber	200 (390°F)	1.2 (174psi)	—	20	9.8	●	○	●	○		Black	9
No6527	Carbon fiber	350 (660°F)	1.0 (145psi)	10.3 (1400psi)	10	7.8	○	○	○	○		Black	—
No6527L	Carbon fiber	350 (660°F)	1.6 (232psi)	—	10	9.8	●	○	●			Black	10
No6527S	Carbon fiber	300 (570°F)	—	29.4 (4200psi)	1.2	24.5		●				Black	11
No6733	Pillarfoil® & Aramid fiber	350 (660°F)	2.0 (290psi)	—	20	19.6	●	○	○	○		Black	—
No6615	Pillarfoil® (Pure graphite)	350 (660°F)	2.0 (290psi)	—	20	24.5	○					Black	—
No4500	Special synthetic fiber	100 (210°F)	1.0 (145psi)	—	10	4.9	●					White	—
No4504	PTFE fiber	200 (390°F)	0.8 (116psi)	10.3 (1400psi)	8	3.4	○			●		White	12
No4505L	PTFE fiber	260 (500°F)	1.0 (145psi)	10.3 (1400psi)	10	4.9	○	○	○	●		White	12
No4506L	Special aramid fiber	120 (240°F)	1.0 (145psi)	—	10	4.9	●					Light Yellow	—
No4507L	Special PTFE fiber	260 (500°F)	1.6 (232psi)	10.3 (1400psi)	16	12.3	●	●	●	○		Dark Gray	—
No4508L	Special synthetic fiber	200 (390°F)	1.2 (174psi)	10.3 (1400psi)	20	12.3	●	○	○	○		Brown	—
No4516L	Special aramid fiber	200 (390°F)	1.0 (145psi)	10.3 (1400psi)	10	6.4	●			○		Light Yellow	—
No4525L	PTFE fiber	200 (390°F)	1.0 (145psi)	10.3 (1400psi)	10	4.9	●	●	●	○		White	12
No4526	Aramid fiber	260 (500°F)	1.6 (232psi)	10.3 (1400psi)	10	9.8	○	○	●	○		Ye & Wh	—
No4526L	Aramid fiber	260 (500°F)	1.6 (232psi)	10.3 (1400psi)	16	14.7	●	○	○	○		Yellow	9
No4527L	Special PTFE fiber	260 (500°F)	1.2 (174psi)	—	20	12.3	●		●			Dark Grey	10
No4529L	Aramid & PTFE fiber	260 (500°F)	2.0 (290psi)	10.3 (1400psi)	16	14.7	○	●	○	○		Ye & Bl	—
No4536	Special aramid fiber	200 (390°F)	1.6 (232psi)	10.3 (1400psi)	—	—	○	○	●	○	Kneaders Low-speed Dry	Light Yellow	11
No4536W	Aramid fiber	260 (500°F)	0.5 (72.5psi)	—	5	2.5	○		○			White	—
No4536WL(WL-S)	Aramid fiber	260 (500°F)	1.0 (145psi)	—	10	6.5	●		●			White	10
No426	Ramie fiber	80 (176°F)	0.5 (72.5psi)	—	10	2.5	○				Stern tubes	Ivory	—
No426F	Ramie fiber	80 (176°F)	0.6 (87psi)	—	10	3.4	○				Stern tubes	White	11
No633	Aluminum alloy foil	350 (660°F)	1.6 (232psi)	—	16	7.8	●			○		Gray	—



## Emission Defence Packing Highest Grade Of EDP Packing Series

Pillar No. **EDP17**



**Pillar Style EDP17** is a combination with **6617** and **6710**. **Style 6617** as a middle ring has anti-permeation structure and can achieve excellent gas-sealability used with **Style 6710** which is made of braided Pillarfoil packing reinforced by inconel wire.

### • Specifications

pH 0 to 14  
Temp. -200~+600°C (-328~+1110°F)  
Press. 43.1 MPa (6250psi)  
(ANSI class 2500)

### • Applications

Solvent, gas, LNG, water, steam, oil, heat transfer oil, strong acid, strong alkali, cryogenic valves, high pressure gas valves, high pressure & high temperature valves

## Emission Defence Packing Low Friction Type Packing For Valves

Pillar No. **EDP15**



**Pillar Style EDP15** is made of flexible graphite Pillarfoil yarn externally reinforced by inconel wire mesh. The packing is then treated with a special lubricant to ensure excellent sealability for use in valves. This packing can be used alone without any end rings.

### • Specifications

Temp. -200~+400°C (-328~+750°F)  
(On condition that the temperature of packing section is below 350°C(660°F).)  
Press. 15.5MPa (2200psi)  
(ANSI class 900)

### • Applications

Solvent, gas, LNG, water, steam, oil, heat transfer oil, strong acid, strong alkali, control valves, cryogenic valves, heat transfer oil valves

## Emission Defence Packing Packing For Low-Torque Control Valves

Pillar No. **EDP19**



**Pillar Style 4519** consists of an inner core which is made of spinned carbon fiber. The surface of the packing is covered with braided PTFE fibers.

This packing has good chemical resistance and low frictional property of PTFE fiber and good heat resistance and elasticity of carbon fiber. It is suitable for control valves which require the sliding characteristics of valve stems.

This packing can be used alone without any end rings.

### • Specifications

pH 0 to 14  
Temp. 260°C (500°F)  
Press. ANSI class 600

### • Applications

Oil solvent, acid, alkali, valves, control valves

## MARK III For High Temp. Valves

Pillar No. **6711**



**Pillar Style 6711** is made of flexible graphite Pillarfoil yarn externally reinforced by inconel wire mesh. The packing is recommended for use in high temperature valves.

This packing can be used alone without any end rings.

### • Specifications

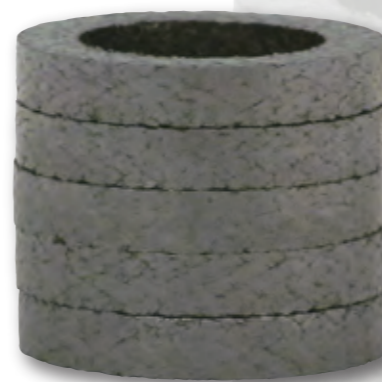
pH 0 to 14  
Temp. -200~+600°C (-328~+1110°F)  
Press. 25.9 MPa (3700psi)  
(ANSI class 1500)

### • Applications

Water, steam, oil, heat transfer oil, solvent, gas, strong acid, strong alkali, high pressure valves, high pressure gas valves, heat transfer oil valves

## MARK III Low Friction Type For High Temp. Valves

Pillar No. **6315CH**



**Pillar Style 6315CH** is made of flexible graphite Pillarfoil yarn externally reinforced by stainless wire. The packing is treated with powdered graphite to improve sliding friction and recommended for use in high temperature valves.

This packing can be used alone without any end rings.

### • Specifications

pH 0 to 14  
Temp. -200~+600°C (-328~+1110°F)  
Press. 25.9 MPa (3700psi)  
(ANSI class 1500)

### • Applications

Water, steam, oil, heat transfer oil, solvent, gas, strong acid, strong alkali, high pressure valves, high pressure gas valves, heat transfer oil valves, man hole

## Pillar Carbon Fiber Packing

Pillar No. **6528**



**Pillar Style 6528** is a lattice braided packing consisting of 100% graphite filaments impregnated with a special lubricant. It is superior to high temperature and chemicals.

The combination use with **Style 6610** or **6616** is recommended for valves.

### • Specifications

pH 0 to 14  
Temp. -200~+500°C (-328~+930°F) (\*1)  
Press. 43.1 MPa (6250psi)  
(ANSI class 2500)

### • Applications

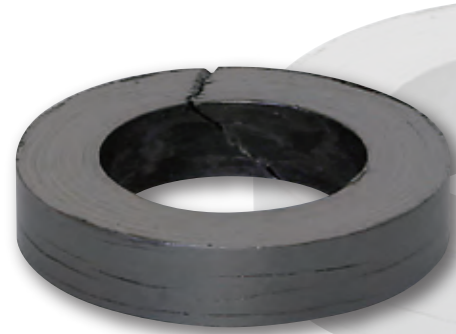
Water, steam, oil, solvent, heat transfer oil, gas, LNG, strong acid, strong alkali, sootblowers



Pillarfoil Mark III, Mark V were developed as epochmaking products in advance of the competitors and hold a patent.

## Pillarfoil Packing For High Temp. & Press. Valves

Pillar No. **6610(N) 6616(N)**



**Pillar Style 6610** is a die-formed flexible graphite packing. It is excellent in heat, chemical and radiation resistance. Use this packing in combination with **Style 6710**. Recommendation for nuclear power station: **Style 6610N**

The performance of **pillar style 6616** is equivalent to **6610**. But it can be extracted easier with the inserted wire mesh.

### • Specifications

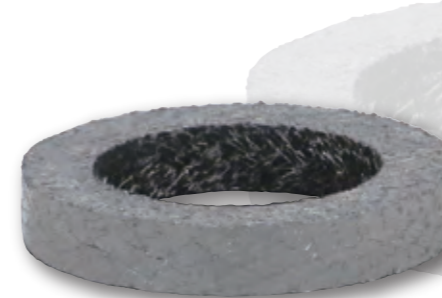
pH 0 to 14  
Temp. -200~+600°C (-328~+1110°F)  
Press. 43.1 MPa (6250psi)  
(ANSI class 2500)

### • Applications

Water, steam, oil, heat transfer oil, solvent, gas, LNG, strong acid, strong alkali, high pressure & high temperature valves, cryogenic valves, high pressure gas valves

## MARK III For High Temp. & Press. valves

Pillar No. **6710(N)**



**Pillar Style 6710** is a braided Pillarfoil packing, reinforced by inconel wire. It is used as an end ring in combination with **Style 6610** or **6616**. Recommendation for nuclear power station: **Style 6710N**.

### • Specifications

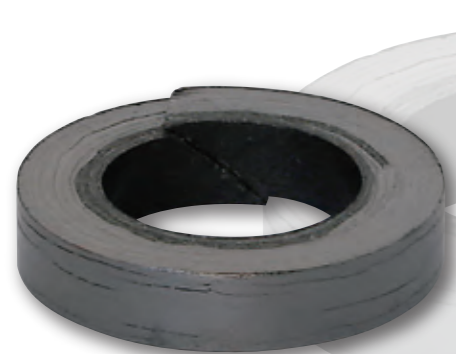
Temp. -200~+600°C (-328~+1110°F)  
Press. 43.1 MPa (6250psi)  
(Combine with Style 6616)  
(ANSI class 2500)

### • Applications

Water, steam, oil, heat transfer oil, solvent, gas, LNG, strong acid, strong alkali, high pressure & high temperature valves, cryogenic valves, high pressure gas valves

## Pillarfoil Packing Low Friction Type For High Press. Valves

Pillar No. **6610CL 6616CL**



**Pillar Style 6610CL, 6616CL** is a die-formed flexible graphite packing, processed with powdered graphite and PTFE resin to improve sliding characteristics. Use **Style 6610CL, 6616CL** in combination with **Style 6710CL**.

★ **6616CL** is a wire mesh inserted packing.

The performance of **pillar style 6616CL** is equivalent to **6610CL**. But it can be extracted easier with the inserted wire mesh.

### • Specifications

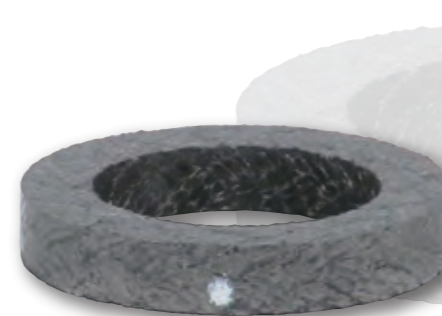
Temp. -200~+400°C (-328~+750°F)  
(On condition that the temperature of packing section is below 350°C(660°F).)  
Press. 77.6MPa (11250psi)  
(ANSI class 4500)

### • Applications

water, steam, oil, heat transfer oil, solvent, gas, LNG, strong acid, strong alkali, control valves, high pressure valves, high pressure gas valves, cryogenic valves

## MARK III Low Friction Type For High Press. Valves

Pillar No. **6710CL**



**Pillar Style 6710CL** is a braided Pillarfoil packing, reinforced by inconel wire. The packing has a superior sliding characteristics since the surface is treated with powdered graphite and PTFE resin. It is used as an end ring in combination with **Style 6610CL** or **6616CL**. Recommendation for nuclear power station: **Style 6710CL**.

### • Specifications

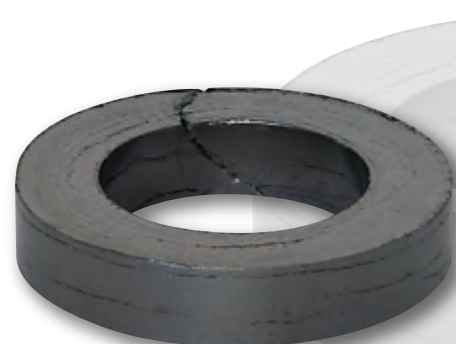
Temp. -200~+400°C (-328~+750°F)  
(On condition that the temperature of packing section is below 350°C(660°F).)  
Press. 77.6MPa (11250psi)  
(ANSI class 4500)

### • Applications

water, steam, oil, heat transfer oil, solvent, gas, LNG, strong acid, strong alkali, control valves, high pressure valves, high pressure gas valves, cryogenic valves

## Pillarfoil Packing Low Friction Type For High Temp. & Press. Valves

Pillar No. **6610CH 6616CH**



**Pillar Style 6610CH, 6616CH** is a die-formed flexible graphite packing. The surface is processed with powdered graphite to improve sliding characteristics. Use **Style 6610CH, 6616CH** in combination with **Style 6710CH**.

★ **6616CH** is a wire mesh inserted packing.

The performance of **pillar style 6616CH** is equivalent to **6610CH**. But it can be extracted easier with the inserted wire mesh.

### • Specifications

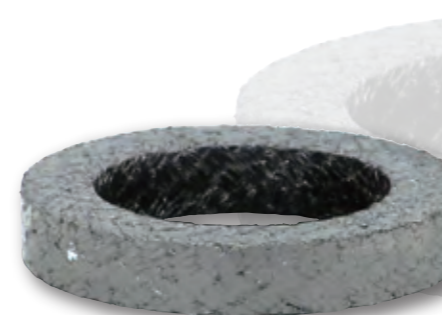
Temp. -200~+600°C (-328~+1110°F)  
(On condition that the temperature of packing section is below 450°C(850°F).)  
Press. 77.6MPa (11250psi)  
(ANSI class 4500)

### • Applications

Water, steam, oil, heat transfer oil, solvent, gas, LNG, strong acid, strong alkali, control valves, high pressure and high temperature valves, cryogenic valves, high pressure gas valves.

## MARK III Low Friction Type For High Temp. & Press. Valves

Pillar No. **6710CH**



**Pillar Style 6710CH** is a braided Pillarfoil packing which is reinforced by inconel wire around die-formed SUS316 fine wires and treated with powdered graphite. This packing has characteristics of heat resistance as well as superior sliding property. It is used as an end ring in combination with **Style 6610CH** or **6616CH**.

### • Specifications

Temp. -200~+600°C (-328~+1110°F)  
(On condition that the temperature of packing section is below 450°C(850°F).)  
Press. 77.6MPa (11250psi)  
(ANSI class 4500)

### • Applications

Water, steam, oil, heat transfer oil, solvent, gas, LNG, strong acid, strong alkali, control valves, high pressure and high temperature valves, cryogenic valves, high pressure gas valves.



## MARK III For High Temp. Valves



**Pillar Style 6711** is made of flexible graphite Pillarfoil yarn externally reinforced by inconel wire mesh. The packing is recommended for use in high temperature valves.

This packing can be used alone without any end rings.

It is available in a single-spool packing.

Pillar No. **6711**

### Specifications

pH 0 to 14  
Temp. -200~+600°C (-328~+1110°F)  
Press. 25.9 MPa (3700psi)  
(ANSI class 1500)

### Applications

Water, steam, oil, heat transfer oil, solvent, gas, strong acid, strong alkali, high pressure valves, high pressure gas valves, heat transfer oil valves

## Emission Defence Packing Low Friction Type Packing For Valves



**Pillar Style EDP15** is made of flexible graphite Pillarfoil yarn externally reinforced by inconel wire mesh. The packing is then treated with a special lubricant to ensure excellent sealability for use in valves.

This packing can be used alone without any end rings.

It is available in a single-spool packing.

Pillar No. **EDP15**

### Specifications

Temp. -200~+400°C (-328~+750°F)  
(On condition that the temperature of packing section is below 350°C(660°F).)  
Press. 15.5MPa (2200psi)  
(ANSI class 900)

### Applications

Solvent, gas, LNG, water, steam, oil, heat transfer oil, strong acid, strong alkali, control valves, cryogenic valves, heat transfer oil valves

## Emission Defence Packing Packing For Low-Torque Adjusting Valves



**Pillar Style EDP19** consists of an inner core which is made of spined carbon fiber. The surface of the packing is covered with braided PTFE fibers.

This packing has good chemical resistance, low frictional property, good heat resistance and elasticity of carbon fiber. It is suitable for control valves which require the sliding characteristics against valve stems.

This packing can be used alone without any end rings.

It is available in a single-spool packing.

Pillar No. **EDP19**

### Specifications

pH 0 to 14  
Temp. 260°C (500°F)  
Press. ANSI class 600

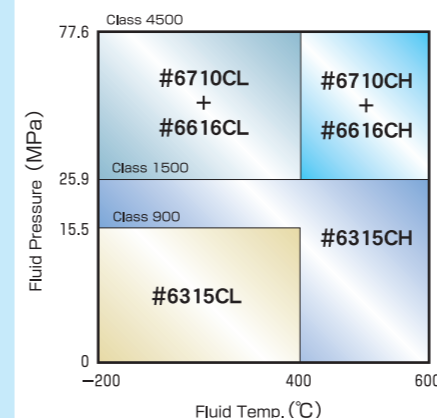
### Applications

Oil solvent, acid, alkali, valves, control valves

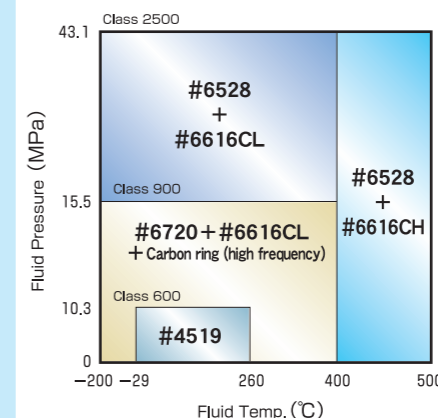
## Packing Selection Chart for Valves

### Valve

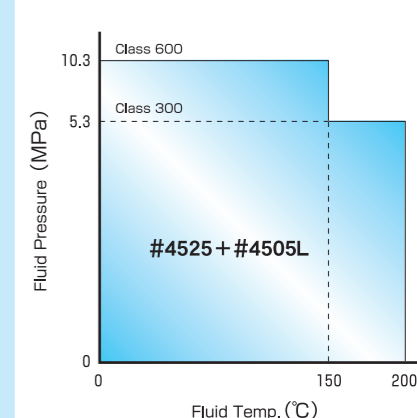
#### General valves Water, Hot water, oil



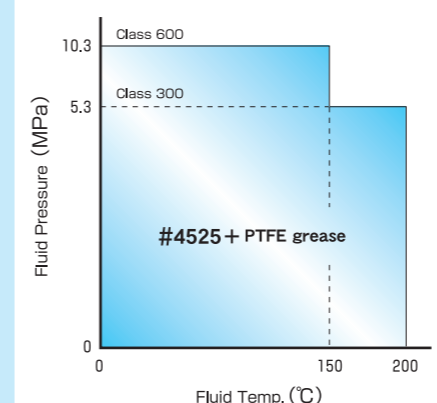
#### Control valves



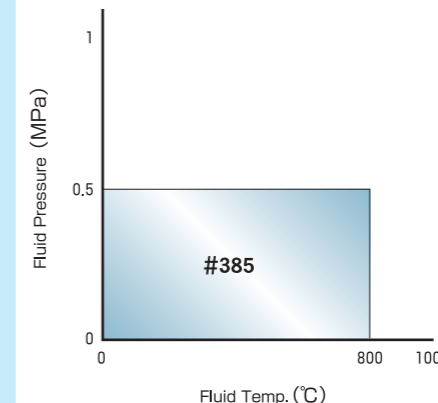
#### Corrosive Fluid



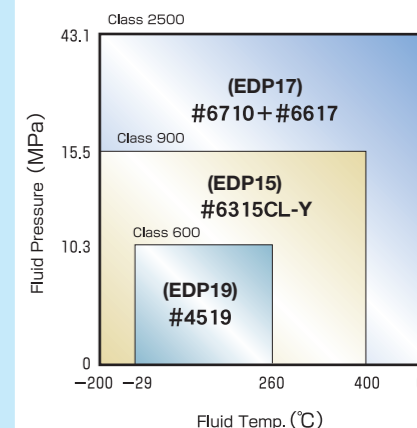
#### Susceptibility gas (for oxygen)



#### Hot exhaust gas



#### Low Emission valves



## Example of combination of expanded Pillarfoil® Packing for Valves

ANSI class	150	300	600	900	1500	2500 or more
#6710 + #6616 or #6610						
#6711						



## Pillar Carbonized Fiber Packing

Pillar No. **6501L**



**Pillar Style 6501L** is a square braided packing consisting of carbonized fiber packing impregnated with PTFE resin and lubricant. This carbonized fiber was developed by our own technology. It provides good sealing performance and less shaft abrasion.

### • Specifications

pH 2 to 12  
Temp. 200°C (390°F) (\*1)  
Press. 1.0 MPa (145psi)  
Velocity 20 m/s  
PV value 9.8 MPa·m/s

### • Applications

Water, hot water, oil, solvent, weak acid, weak alkali, pumps, blowers, mixers, stern tubes

(\*1) Cooling is needed in case fluid temperature over 80°C (176°F).

## Pillar Carbon Fiber Packing

Pillar No. **6527L**



**Pillar Style 6527L** is a lattice braided packing consisting of carbon fiber and processed with a special lubricant. Excellent in heat resistance and chemical resistance and ideal for pumps and agitators.

### • Specifications

pH 0 to 14  
Temp. 350°C (660°F) (\*1)  
Press. 1.6 MPa (232psi)  
Velocity 10m/s  
PV value 9.8 MPa·m/s (100 kgf/cm²·m/s)

### • Applications

Water, hot water, oil, solvent, strong acid, strong alkali, pumps, mixers

(\*1) Cooling is needed in case fluid temperature over 80°C (176°F).

## Pillar Carbonized Fiber Packing

Pillar No. **6521L**



**Pillar Style 6521L** is a lattice braided packing of consisting carbonized fiber which is impregnated with PTFE resin, and a special lubricant. The **Pillar Style 6521L**, a sister product of **Style 6501L**, has further been improved in its pressure-proof property and has characteristics that its sealing property is less influenced by pressure fluctuation of pump and it is stable when used for large-sized shaft.

### • Specifications

pH 2 to 12  
Temp. 200°C (390°F) (\*1)  
Press. 1.2 MPa (174psi)  
Velocity 20 m/s  
PV value 9.8 MPa·m/s

### • Applications

Water, hot water, oil, solvent, weak acid, weak alkali, pumps, mixers, stern tubes.

(\*1) Cooling is needed in case fluid temperature over 80°C (176°F).

## Pillar Carbon Fiber Packing For Reciprocating Rod

Pillar No. **6527S**



**Pillar Style 6527S** is an endless packing consisting of carbon fiber impregnated with graphite and PTFE resin. After the fiber is woven into lattice braids the packing is molded into specified sizes without a cutting surface.

**Pillar Style 6527S**, an epoch-making packing, has been developed especially for reciprocating pumps. Compared with conventional gland packings and V-shaped formed packings, the sealing properties, heat resistance and service life of this packing have been drastically improved. The packing achieved good reputation by solidifying its excellent performance on various applications.

### • Specifications

pH 0 to 14  
Temp. -200~+300°C (-328~+570°F)  
Press. 29.4 MPa (4200psi)  
Shaft speed 1.2 m/s  
PV value 24.5 MPa·m/s

### • Applications

Hydraulic press reciprocating pumps for the iron works, process reciprocating pumps for the petrochemical refinery, process reciprocating pumps for the chemical industry, reciprocating pumps for ammonia carbamate, and other industrial-use hydraulic presses and reciprocating pumps for high-pressure fluids.

## Pillar Aramid Fiber Packing

Pillar No. **4526L**



**Pillar Style 4526L** is a packing consisting of the high-intensity aramid fiber impregnated with PTFE dispersion and heat resistant lubricant. It is unique lattice braided packing and creates stable sealing ability and stability for a long period of time.

### • Specifications

pH 2 to 14  
Temp. 260°C (500°F) (\*1)  
Press. 1.6 MPa (232psi) (in pumps)  
10.3MPa (1400psi) (in valves)  
Velocity 16 m/s  
PV value 14.7 MPa·m/s

### • Applications

Slurry liquid, white liquid, green liquid, black liquid, pumps, mixers

(\*1) Cooling is needed in case fluid temperature over 80°C.

## Pillar White Aramid Fiber Packing

Pillar No. **4536WL**



**Pillar Style 4536WL** is a lattice braided packing consisting of aramid and glass fibers. It is treated with PTFE resin and special lubricant to improve sliding characteristics.

### • Specifications

pH 2 to 13  
Temp. 260°C (500°F) (\*1)  
Press. 1.0 MPa (145psi)  
Velocity 10 m/s  
PV value 6.5 MPa·m/s

### • Applications

Water, white liquid, solvent, weak acid, weak alkali, and fluids to prohibit pollution

(\*1) Cooling is needed in case fluid temperature over 80°C.



## Pillar Packing For Low-Speed Dry Stage Applications and Valves

Pillar No. **4536**



**Pillar Style 4536** is a lattice braided packing consisting of special aramid fiber impregnated with the PTFE resin. Because of an original lattice braid system, this packing is very flexible and enables uniform contact with shafts. Therefore, it is suitable for low-speed, dry states of application. This packing, compared with conventional aramid fiber packings, can be easily cut without feazing the cut surface.

• **Specifications**  
pH 2 to 14  
Temp. 200°C (390°F)  
Press. 1.6 MPa (232psi) (in pumps)  
ANSI class 600 (in valves)

• **Applications**  
Water, oil, reciprocating pumps, low-speed dry machine



## Pilaflon Fiber Packing

Pillar No. **4504**



**Pillar Style 4504** is a square braids of PTFE fiber impregnated with PTFE resin. The packing is ideal for handling oxygen and food owing to the fact that it is free from oil.

• **Specifications**  
pH 0 to 14  
Temp. 200°C (390°F)  
Press. ANSI class 600

• **Applications**  
Valves for oxygen, foods, and fluids to prohibit pollution.



## Pilaflon Ramie Packing

Pillar No. **426F**



**Pillar Style 426F** is a square braided packing which consists of finest ramie fiber impregnated with PTFE resin and lubricant. This packing is stern tube packing or pumps packing. There is another type of ramie packing, **Pillar Style 426**, which is not impregnated with PTFE resin.

• **Specifications**  
pH 6 to 8  
Temp. 80°C (176°F)  
Press. 0.6 MPa (87psi)  
Velocity 10 m/s  
PV value 3.4 MPa·m/s

• **Applications**  
Water, sea water, oil, stern tubes, pumps



## Pilaflon Fiber Packing

Pillar No. **4505L**



**Pillar Style 4505L** is a squarely braided packing consisting of Pilaflon(PTFE) fiber impregnated with PTFE resin and lubricant. It has good solvent and chemical resistance, high sealability and less effect on stem abrasion.

**Pillar Style 4525** is lattice braided packing made of Pilaflon fiber.

• **Specifications**  
pH 0 to 14  
Temp. -100~+260°C (-148~+500°F) (\*1)  
Press. 10.3MPa (1400psi) (in valves)  
1.0MPa (145psi) (in pumps)  
Velocity 10m/s  
PV value 4.9MPa·m/s

• **Applications**  
solvent, strong acid, strong alkali, pumps, valves, mixers

(\*1) Cooling is needed in case fluid temperature over 80°C.



## Special Pilaflon Super Packing For Chemical Pumps

Pillar No. **4527L**



**Pillar Style 4527L** is a lattice braided packing consisting of the PTFE fiber containing highly pure graphite and a special lubricant. Its original lattice braid system enables uniform contact with shafts and creates stable sealability for a long period of time. The packing is suitable for acid and alkali pumps and manufacturing pumps as well.

• **Specifications**  
pH 0 to 14  
Temp. -100~+260°C (-148~+500°F) (\*1)  
Press. 1.2 MPa (174psi)  
Velocity 20 m/s  
PV value 12.3 MPa·m/s

• **Applications**  
Water, oil, acid, alkali, pumps, paper manufacture

(\*1) Cooling is needed in case fluid temperature over 80°C.



## Pilaflon Fiber Packing

Pillar No. **4525L**



**Pillar Style 4525L** is a lattice braided packing. It consists of the PTFE fiber impregnated with PTFE resin and a special lubricant. Owing to the original lattice braid system, this packing is very flexible and ensures stable sealing due to the uniform contact with pump shafts.

• **Specifications**  
pH 0 to 14  
Temp. 200°C (390°F) (\*1)  
Press. 1.0 MPa (145psi)  
Velocity 10m/s  
PV value 4.9 MPa·m/s

• **Applications**  
Solvent, strong acid, strong alkali, pumps, mixers

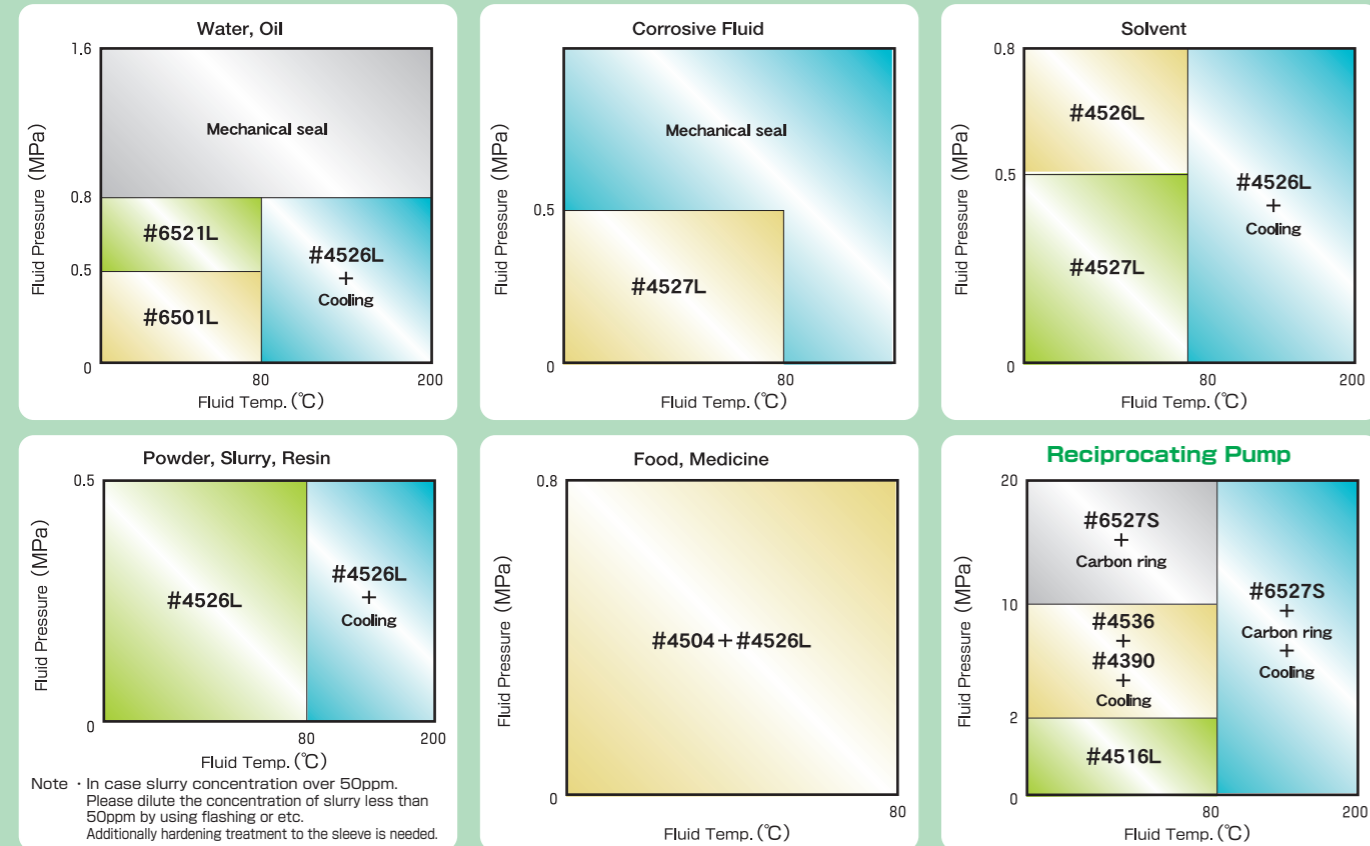
(\*1) Cooling is needed in case fluid temperature over 80°C.



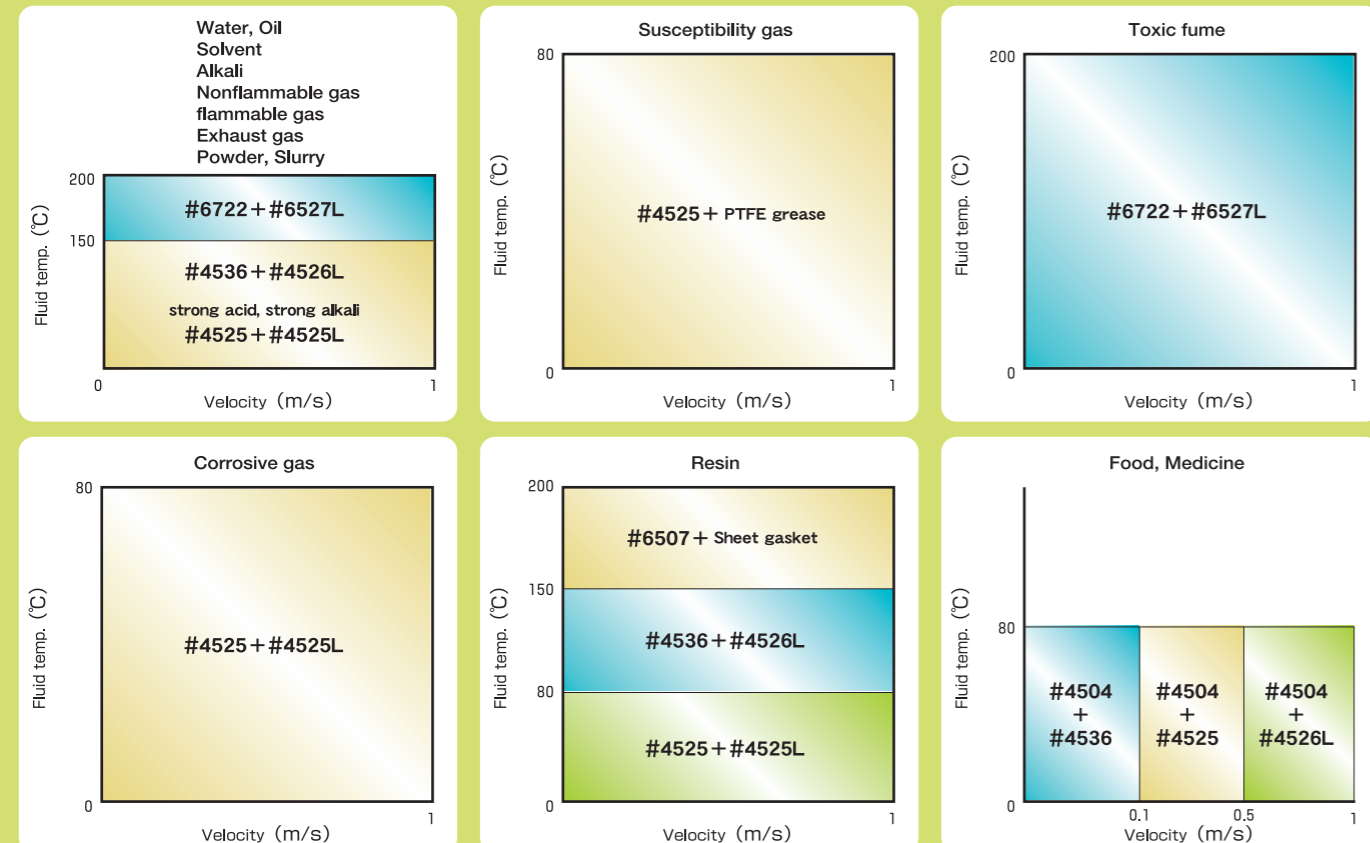


## Packing Selection Chart for Pumps and Others

### Pump



### Low Speed Rotating Machine



## Standard Size

	Pillar style No.	Nominal size (mm)															
		3	5	6.5	8	9.5	10	11	12.5	14.5	16	17.5	19	20.5	22	24	25.5
Valve	No.EDP17	Only molded products are available															
	No.EDP15	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	No.EDP19		○	○	○	○	●	○	○	○	○						
	No.6711	○	○	○	○	○	●	○	○	○	○	●	○	●	●	●	●
	No.6315CH	○	○	○	○	○	●	○	○	○	○	○	○	○	○	○	○
	No.6528	●	●	○	○	○	●	●	○	●	○	●	○	●	○	●	●
	No.6610,6616	Only molded products are available															
	No.6610CL,6616CL	Only molded products are available															
	No.6610CH,6616CH	Only molded products are available															
	No.6710		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pump	No.6710CL	Only molded products are available															
	No.6710CH	Only molded products are available															
	No.6501L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	No.6521L		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	No.4526L	○	○	○	○	○	○	○	○	○	○	○	○	○	○	●	○
	No.6527L		○	○	○	○	●	○	○	○	○	○	○	○	○	○	○
	No.6527S	Only molded products are available															
	No.4536WL		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	No.4536		○	○	○	○	○	○	○	○	○	○	○	○	○	●	○
	No.426F	■	■	■	□	□	●	□	□	□	□	□	□	□	□	□	□
	No.4527L		○	○	○	○	○	○	○	○	○	○	○	○	○	●	●
	No.4504	●	●	○	○	○	●	●	○	●	○	●	●	●	●	●	●
	No.4505L	○	○	○	○	○	●	○	○	○	○	○	○	○	○	○	○
	No.4525L		●	●	○	○	●	●	○	●	○	●	●	●	●	●	●

(\*1) ○ : 3m/box, □ : 3.6m/box, ● : 10m/box, ■ : 20m/box

	Pillar style No.	Nominal size (Inches)						
		1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"
Spool	No.EDP15	□	●	△	■	△	△	△
	No.EDP19		●	△	■	○	○	○
	No.6711	□	●	○	■	○	△	△

(\*2) ○ : 20m/spool, □ : 30m/spool, △ : 10m/spool or 20m/spool,  
● : 20m/spool or 30m/spool, ■ : 10m/spool or 20m/spool or 30m/spool



Follow the instructions, before installation and operation, for your safety.

\* Specifications and dimensions are subject to change without prior notice.

\* The data on this catalogue are solely for your reference and are not to be construed as constituting a warranty.

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