

○Packing for Valve (1/3)

Product Nos.	Names	Construction	Performances	Main applications
6114	Pillar Foil Mark VII	The Pillar No.6114 is an expansive graphite packing which does not use any metal wire, to which the braid yarn of expansive graphite yarn reinforced by organic fiber, and is braided to square cross section shape. The special lubricant is applied firmly on the surface layer of expansive graphite braid yarn, to assure the performances such as sealing performance, sliding performance, etc. to the maximum level.	Working temperature range: -200°C~+400°C (packing temperature: 350°C or less) Pressure limit: 5.3MPa (class-300)	Valve for hot oil, catalyst Cast iron valve, ductile valve
6315CL	Pillar Foil Mark V Low-torque type	The Pillar No.6315CL is a low-sliding characteristic type expansive graphite packing made by executing the impermeability treatment (using liquid lubricant) and lubrication treatment (using PTFE resin and pulverized graphite) after braiding the expansive graphite yarn reinforced by stainless steel. The packing of this type is applicable independently at the pressure class of up to class-900 and under the wide range use condition, and serves to reduce the maintenance of stem seal of valve as well as to prolong the service life.	Working temperature range: -200°C~+400°C (packing temperature: 350°C or less) Pressure limit: 5.315.5MPa (class-900)	Water, steam, oil, heat transfer oil, solvent, gas, acid, alkali Cast steel valve, forged steel valve
6315CH	Pillar Foil Mark V Low-torque type	The Pillar No.6315CH is an expansive graphite packing (of which core material uses the expansive graphite yarn) made by executing the surface treatment, using the special lubricant and pulverized graphite, after covering and braiding the surface, using expansive graphite braid yarn reinforced by stainless steel.	Working temperature range: -200°C~+600°C (450°C or less for oxidization atmosphere) Pressure limit: 25.9MPa (class-1500)	Water, steam, oil, heat transfer oil, solvent, gas, acid, alkali Cast steel valve, forged steel valve
6710CL+6616CL (6610CL)	Pillar Mark III Combi	The packing of this type is a packing for medium-temperature/high-pressure valve, made by combining the adaptor packing (No.6710CL) at both sides of Pillar No. 6616CL or No.6610CL. The Pillar No.6616CL is a main seal packing made by forming the expansive graphite sheet and inconel wire netting to ring-shape. The special quality improvement treatment is executed at the inner circumference of packing, using the PTFE resin and pulverized graphite, to provide the low-sliding characteristic. The Pillar No.6610CL is a type which does not contain the inconel wire netting used for No.6616CL. The Pillar No.6710CL is a packing for adapter, made by braiding the expansive graphite yarn reinforced by thin inconel wire. The lubrication treatment is executed on the surface, using PTFE resin and pulverized graphite, to provide the low-sliding characteristic.	Working temperature range: -200°C~+400°C (packing temperature: 350°C or less) Pressure limit: 77.6MPa (class-4500)	Water, steam, oil, heat transfer oil, solvent, gas, LNG

○ Packing for Valve (2/3)

Product Nos.	Names	Construction	Performances	Main applications
6710CH+ 6616CH (6610CH)	Pillar Mark III Combi	<p>The packing of this type is a packing for high-temperature/high-pressure valve, made by combining the adaptor packing (No.6710CH) at both sides of Pillar No.6616CH or No.6610CH. The Pillar No.6616CH is a main seal packing made by forming the expansive graphite sheet and inconel wire netting to ring-shape. It is also a low-torque packing of which cross section construction of packing is of special folding construction.</p> <p>The Pillar No.6610CH is a type which does not contain the inconel wire netting used for No. 6616CH.</p> <p>The Pillar No.6710CH is a packing for adaptor, made by braiding the expansive graphite braid yarn reinforced by inconel wire on the surface of center core material.</p> <p>The lubrication treatment is executed on the surface, using pulverized graphite, to provide the low-sliding characteristic.</p>	<p>Working temperature range: -200°C~+600°C (packing temperature: 450°C or less)</p> <p>Pressure limit: 77.6MPa (class-4500)</p>	Water, steam, oil, heat transfer oil, solvent, gas, LNG
6720+ 6616CL (6610CL)	Pillar Mark III Combi	<p>The packing of this type is a packing for medium-temperature/medium-pressure valve, made by combining the adaptor packing(No.6720) at both sides of Pillar No. 6616CL or No.6610CL.</p> <p>The Pillar No.6616CL is a main seal packing made by forming the expansive graphite sheet and inconel wire netting to ring-shape. The special quality improvement treatment is executed at the inner circumference of packing, using the PTFE resin and pulverized graphite, to provide the low-sliding characteristic.</p> <p>The Pillar No.6610CL is a type which does not contain the inconel wire netting used for No. 6616CL.</p> <p>The Pillar No.6720 is a packing for adaptor having low-sliding characteristic, made by braiding the expansive graphite braid yarn reinforced by PTFE fiber.</p> <p>The packing is of non-metallic specification, and does not contain any material which may damage the metal or valve body, and can be used in safe to the valve which is subject to frequent operation.</p>	<p>Working temperature range: -200°C~+400°C (packing temperature: 350°C or less)</p> <p>Pressure limit: 15.5MPa (class-900)</p>	Water, steam, oil, heat transfer oil, solvent, gas, LNG
6710+ 6617	Pillar EDP acking set	<p>The Pillar No.6617 is a gland packing made of expansive graphite only, to which the impermeability treatment is executed, and is a packing set to be used in combination with the Pillar No.6710.</p> <p>The packing of this type assures the excellent air-tight sealing performance which has been unable to be achieved by the conventional packing made by molding the expansive graphite.</p> <p>The Pillar No.6710 is a packing for adaptor, made by braiding the expansive graphite braid yarn reinforced by fine inconel fiber, to square cross section shape.</p>	<p>Working temperature range: -200°C~+600°C (450°C or less for oxidization atmosphere)</p> <p>Pressure limit: 43.1MPa (class-2500)</p>	<p>Water, steam, oil, heat transfer oil, solvent, gas, LNG, acid, alkali</p> <p>High-temp./high-press. valve Ultra-low temperature valve</p>

○ Packing for Valve (3/3)

Product Nos.	Names	Construction	Performances	Main applications
4504	Pilaflon Fiber packing	The Pillar No.4504 is a packing made by square-braiding the PTFE fiber after impregnating it in the PTFE fiber. Since the packing of this type does not contain any oil/grease content, it is suitable to oxygen and food.	Maximum working temperature: +200°C Pressure limit: 10.3MPa (class-600)	Valve for fluid such as oxygen, food, etc. which is not resistible against contamination
4519	Pilaflon Packing for low-torque control valve	The Pillar No.4519 is a packing which uses the spun carbon fiber yarn to its center core material, and of which surface is covered and braided by PTFE fiber. The packing of this type is provided with excellent sliding characteristic and chemical-resisting performance possessed by PTFE fiber, and with heat-resisting performance and elasticity possessed by carbon fiber. Consequently, the packing of this type is a packing having low sliding resistance, and is suitable to the control valve, etc. of which the sliding characteristic of valve rod is emphasized.	Maximum working temperature: +200°C Pressure limit: 10.3MPa (class-600)	Oil, solvent, acid, alkali Control valve, general valve
6528	Pillar high-strength carbon fiber packing	The Pillar No. 6528 is a packing made by executing the treatment, using a few quantity of binder and lubricant after interlocking-braiding the PAN-base high-performance carbon fiber. The packing of this type provides the excellent heat-resisting performance, chemical-resisting performance, elasticity and sealing performance, and can be used in combination with the Pillar No. 6616CL, etc.	Working temperature range: -200°C~ +500°C Pressure limit: 43.1MPa (class-2500)	Water, steam, oil, heat transfer oil, solvent, gas, LNG, acid, alkali
6711	Pillar Foil MarkIII	The Pillar No. 6711 is a packing for high-temperature/high-pressure valve, made by baking the graphite on the surface after braiding the expansive graphite braid yarn reinforced by inconel wire to square cross section shape. It is a packing for high-temperature/high-pressure valve, and is applicable independently.	Working temperature range: -200°C~ +600°C(450°C or less for oxidization atmosphere) Pressure limit: 25.9MPa (class-1500)	Water, steam, oil, heat transfer oil, solvent, gas, acid, alkali High-temperature/high-pressure valve, heat transfer oil valve
385	Metallic packing	The packing of this type is an adaptor packing, made by executing the treatment, using graphite after braid-over braiding the outer circumference of center core (made by 8-carrier braiding the ceramic fiber), using fine stainless steel wire.	Working temperature range: -200°C~ +800°C Pressure limit: 43.1MPa (class-2500)	Steam, hot oil, oil-base hydrocarbon, organic solvent

○ Packing for rotary machine and reciprocating machine (1/4)

Product Nos.	Names	Construction	Performances	Main applications
6501L	Pillar silicone carbide fiber packing	<p>The Pillar No. 6501L is a packing made by impregnating the PTFE resin liquid and special lubricant after square-braiding the silicone carbide fiber.</p> <p>Since this silicone carbide fiber was developed for packing independently by Nippon Pillar, and can properly run in the shaft, it will hardly cause any worn shaft.</p> <p>It is treated as a pronoun of packing used for general-purpose pump from general performance viewpoint of performance, handling, price, etc.</p>	<p>pH range: 2~12</p> <p>Maximum working temperature: 200°C(max.) (For fluid exceeding 80°C, the cooling unit is to be attached)</p> <p>Maximum working pressure: 1.0MPa</p> <p>Peripheral speed limit: 20m/s</p> <p>PV value: 9.8MPa·m/s</p>	<p>Water, oil, solvent, weak-acid, weak-alkali</p> <p>Pump, blower, agitator, stem tube shaft</p>
6502L	Pillar silicone carbide fiber packing	<p>The Pillar No. 6502L is a packing made by square-braiding the silicone carbide fiber after impregnating the PTFE resin liquid to the silicone carbide fiber.</p> <p>The packing of this type is a sister product of No. 6501L.</p> <p>This packing is a type is resistible against high pressure, of which stability, when it is tightened forcibly, is enhanced, and is suitable to the pump used for building.</p>	<p>pH range: 2~12</p> <p>Maximum working temperature: 200°C(max.) (For fluid exceeding 80°C, the cooling unit is to be attached)</p> <p>Maximum working pressure: 1.0MPa</p> <p>Peripheral speed limit: 10m/s</p> <p>PV value: 9.8MPa·m/s</p>	<p>Pump used for building, general-purpose pump</p>
6521L	Pillar silicone carbide fiber packing	<p>The Pillar No. 6521L is a packing made by impregnating the special lubricant after impregnating the PTFE resin liquid to the silicone carbide fiber, and then by interlock-braiding it to square cross section shape.</p> <p>The packing of this type is a sister product of No. 6501L, and assures the further increased pressure-resisting performance, and provides such features that the sealing performance is little influenced even if any pressure deviation occurs in the pump, and that the stability is assured even for large-diameter shaft, etc.</p>	<p>pH range: 2~12</p> <p>Maximum working temperature: 200°C(max.) (For fluid exceeding 80°C, the cooling unit is to be attached)</p> <p>Maximum working pressure: 1.2MPa</p> <p>Peripheral speed limit: 20m/s</p> <p>PV value: 9.8MPa·m/s</p>	<p>Water, hot water, oil, solvent, weak-acid, weak-alkali</p> <p>Pump, agitator, stem tube shaft</p>
6527L	Pillar carbon fiber packing	<p>The Pillar No. 6527L is a packing made by impregnating the special lubricant after interlocking-braiding the carbon fiber.</p> <p>The packing of this type provides the excellent heat-resisting performance and chemical-resisting performance and is mainly used for pump and agitator.</p>	<p>pH range: 0~14</p> <p>Maximum working temperature: 350°C(max.)</p> <p>Maximum working pressure: 1.6MPa</p> <p>Peripheral speed limit: 10m/s</p> <p>PV value: 9.8MPa·m/s</p>	<p>Water, hot water, oil, solvent, weak-acid, weak-alkali</p> <p>Pump, agitator, stem tube shaft</p>

○ Packing for rotary machine and reciprocating machine (2/4)

Product Nos.	Names	Construction	Performances	Main applications
6527S	Pillar silicone carbide fiber packing for reciprocating shaft	The Pillar No. 6527S is an endless packing without cutting end, made by forming it to the desired dimension after interlock-braiding the graphite and carbon fiber (to which PTFE resin liquid is impregnated). The packing of this type is developed for reciprocating pump only.	pH range: 0~14 Maximum working temperature: 300°C (max.) Maximum working pressure: 29.4MPa Peripheral speed limit: 1.2m/s PV value: 24.5MPa·m/s	Hydrostatic press plunger for iron-making plant, process plunger for oil refining, process plunger for chemical industry
4505L	Pillarflon fiber packing	The Pillar No. 4505L is a packing made by impregnating the PTFE resin liquid and special lubricant after square-braiding the Pilaflon fiber. The packing of this type provides such features as excellent solvent-resisting performance and chemical-resisting performance, limited worn shaft, low operation torque, etc.	pH range: 0~14 Maximum working temperature: 260°C (max.) Maximum working pressure: 1.0MPa Peripheral speed limit: 10m/s PV value: 4.9MPa·m/s	Solvent, strong acid, strong alkali Pump, valve, agitator
4507L	Special Pillaflon fiber packing	The Pillar No. 4507L is a packing made by impregnating the PTFE resin liquid and special lubricant after square-braiding the PTFE fiber to which graphite is filled.	pH range: 0~14 Maximum working temperature: 260°C (max.) Maximum working pressure: 1.6MPa Peripheral speed limit: 16m/s PV value: 12.3MPa·m/s	Solvent, acid, alkali Pump, valve, agitator
4516L	Pillar packing for low-torque /general-purpose pump	The pillar No. 4516L is a packing for low-torque general-purpose pump, made by impregnating the PTFE resin liquid and special lubricant after braid-over braiding the special aramid fiber at the circumference of special core. The packing of this type provides such feature that it can be readily cut and the cutting end is hardly loosened as compared with the conventional aramid fiber packing.	pH range: 4~10 Maximum working temperature: 200°C (max.) (For fluid exceeding 80°C, the cooling unit is to be attached) Maximum working pressure: 1.6MPa Peripheral speed limit: 16m/s PV value: 12.3MPa·m/s	Fresh seawater, oil General-purpose pump

○ Packing for rotary machine and reciprocating machine (3/4)

Product Nos.	Names	Construction	Performances	Main applications
4525L	Pilaflon fiber packing	The Pillar No. 4525L is a packing made by interlocking-braiding the PTFE fiber after impregnating the special lubricant and PTFE resin liquid to the PTFE fiber. Since the packing of this type is braided by unique interlocking method, it is flexible and assures the even contact with the shaft, assuring the stabilized sealing performance.	pH range: 0~14 Maximum working temperature: 200°C (max.) Maximum working pressure: 1.0MPa Peripheral speed limit: 10m/s PV value: 4.9MPa·m/s	Solvent, strong acid, strong alkali Pump, agitator
4526L	Pillar aramid fiber packing	The Pillar No. 4526L is a packing made by interlocking-braiding the high-strength aramid fiber after impregnating the special lubricant and PTFE resin liquid to the high-strength aramid fiber. Since it is uniquely interlocking-braided, it is extremely flexible, and assures the uniform contact with the shaft, providing the excellent sealing performance and stability.	pH range: 2~14 Maximum working temperature: 260°C (max.) (For fluid exceeding 80°C, the cooling unit is to be attached) Maximum working pressure: 1.6MPa Peripheral speed limit: 16m/s PV value: 14.7MPa·m/s	Slurry liquid, and white liquor for pulp, green liquor, black liquor for pulp Pump, agitator
4527L	Special Pilaflon packing for chemical pump	The Pillar No. 4527L is a packing made by interlocking-braiding the PTFE fiber (to which high-purity graphite and special lubricant are impregnated). Since it is uniquely interlock-braided, it assures the uniform contact with the shaft, assuring the stabilized sealing performance.	pH range: 0~14 Maximum working temperature: 260°C (max.) (For fluid exceeding 80°C, the cooling unit is to be attached) Maximum working pressure: 1.2MPa Peripheral speed limit: 20m/s PV value: 12.3MPa·m/s	Water, oil, acid, alkali Paper-making pump
6733	Pillar packing for expansive graphite pump	The Pillar No. 6733 is a Pilafoil braided packing made by executing the treatment, using heat-resisting lubricant after interlocking-braiding the Pilafoil yarn reinforced by aramid fiber, to square cross section shape.	Maximum working temperature: 350°C (max.) Maximum working pressure: 2.0MPa Peripheral speed limit: 20m/s PV value: 19.6MPa·m/s	Water, hot water, oil, acid, alkali High-pressure water supply pump, boiler water supply pump, boiler circulation water pump, high-viscosity oil pump

○ Packing for rotary machine and reciprocating machine (4/4)

Product Nos.	Names	Construction	Performances	Main applications
4536	Pillar packing for low-speed dry unit	The Pillar No. 536 is a packing made by interlocking-braiding the special aramid fiber after impregnating the PTFE resin liquid to the special aramid fiber. Since it is uniquely interlock-braided, it is flexible and assures the uniform contact with the shaft, it is applicable to the low-speed dry unit.	pH range: 2~14 Maximum working temperature: 200°C (max.) Maximum working pressure: 1.6MPa	Water, oil Reciprocating pump, low-speed dry unit
4545	Pilaflon packing for large-scale rotary unit	The Pillar No. 4545 is a white packing to which the heat-treatment is executed, to increase its density after multi-braid-over braiding the PTFE fiber to which the PTFE resin liquid is impregnated. It is used for large rotary unit such as kneader, mixer, agitator, etc. together with No. 4536.	pH range: 0~14 Maximum working temperature: 260°C (max.) Maximum working pressure: 15.5MPa	Agitator, dryer, paper-making digester
426F	Pilaflon lami-packing	The Pillar No. 426F is a packing mace by square-braiding the laminated fiber after impregnating the PTFE resin liquid and special white grease to the excellent laminated fiber, and is used widely for stem tube shaft and general-purpose pump.	pH range: 6~8 Maximum working temperature: 80°C (max.) Maximum working pressure: 0.6MPa Peripheral speed limit: 10m/s PV value: 3.4MPa·m/s	Fresh seawater, oil Stem tube shaft, pump