

# Pillar Non-Asbestos Packings



## Pillar Carbonized Fiber Packing

### Specifications

PH 2 to 12  
Temp. 200°C  
Press. 1.0 MPa (10 kgf/cm<sup>2</sup>)  
Velocity 20 m/sec  
PV value 98 MPa·m/s (100 kgf/cm<sup>2</sup>·m/sec)

### Applications

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



## Pillar Carbonized Fiber Packing

### Specifications

PH 2 to 10  
Temp. 200°C  
Press. 1.2 MPa (12.5 kgf/cm<sup>2</sup>)  
Velocity 20 m/sec  
PV value 98 MPa·m/s (100 kgf/cm<sup>2</sup>·m/sec)

### Applications

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



## Pillar Carbon Fiber Packing

### Specifications

PH 0 to 14  
Temp. 350°C  
Press. 1.6 MPa (16 kgf/cm<sup>2</sup>)  
Velocity 10 m/sec  
PV value 98 MPa·m/s (100 kgf/cm<sup>2</sup>·m/sec)

### Applications

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



## Pillar Carbon Fiber Packing For Reciprocating Rod

### Specifications

PH 0 to 14  
Temp. -200–300°C  
Press. 29.4 MPa (300 kgf/cm<sup>2</sup>)  
Velocity 1.2 m/sec  
PV value 24.5 MPa·m/s (250 kgf/cm<sup>2</sup>·m/sec)

### Applications

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



## Pillar Carbon Fiber Packing

### Specifications

PH 0 to 14  
Temp. -200–500°C  
Press. 43.1 MPa (440 kgf/cm<sup>2</sup>) (ANSI class 2500)

### Applications

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



## Pillar Metallic Packing

### Specifications

PH 6 to 8  
Temp. 210°C  
Press. 1.6 MPa (16 kgf/cm<sup>2</sup>)  
Velocity 20 m/sec  
PV value 17.7 MPa·m/s (150 kgf/cm<sup>2</sup>·m/sec)

### Applications

Water, hot water, oil, feed water pumps, boiler water circulating pumps



## Pillarfoil Packing For Valves

### Specifications

PH 0 to 14  
Temp. -200–600°C  
Press. 43.1 MPa (440 kgf/cm<sup>2</sup>) (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 For Valves, Easy Extraction Type

### Specifications

PH 0 to 14  
Temp. -200–600°C  
Press. 43.1 MPa (440 kgf/cm<sup>2</sup>) (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 COMBI For High Temp. & Press. valves

### Specifications

Temp. -200–600°C  
Press. 43.1 MPa (440 kgf/cm<sup>2</sup>) (ANSI class 2500)  
(Combine with style 6610) (ANSI class 2500)

### Applications

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



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

### Specifications

Temp. -200–600°C  
Press. 25.9 MPa (264 kgf/cm<sup>2</sup>)  
Velocity 20 m/sec (ANSI class 1500)

### Applications

Water, Steam, oil, heat transfer oil, solvent, gas, LNG, acid, alkali, high pressure & valves, heat transfer oil valves, soot blowers, gasket for covers



## MARK III ORIGINAL For Pumps

### Specifications

Temp. 350°C  
Press. 2.0 MPa (20 kgf/cm<sup>2</sup>)  
Velocity 20 m/sec  
PV value 19.6 MPa·m/s (200 kgf/cm<sup>2</sup>·m/sec)

### Applications

Water, hot water, oil, acid, alkali, high pressure feed pumps, boiler feed pumps, boiler water circulating pumps, high viscosity oil pumps



## MARK III For Manholes

### Specifications

Temp. 400°C  
Fluid hot wind, exhaust gas, and dust  
(Style 6711 is recommended for conditions over 400°C)

### Applications

The doors of various furnaces, heaters, and dryers, as well as the flanges of both dampers and manholes



## MARK V For Valves For Pumps

### Specifications

Temp. -200–450°C  
Press. 15.5 MPa (159 kgf/cm<sup>2</sup>) (ANSI class 900)

### Applications

Water, steam, oil, heat transfer oil, solvent, gas, acid, alkali, cast steel valve, forged valve, heat transfer oil valves, high pressure gas valves, soot blowers, gasket for covers



## MARK V For Valves For Pumps

### Specifications

Temp. -200–350°C  
Press. 10.3 MPa (106 kgf/cm<sup>2</sup>)  
Velocity 20 m/sec (ANSI class 600)

### Applications

Water, steam, oil, heat transfer oil, solvent, gas, acid, alkali, ductile valve, stainless valve, casted valve, control valve

# Pillar Non-Asbestos Packings



## MARK IV Low Friction Type For Valves Specifications

Temp. -200–400°C  
(On condition that the temperature of packing section is below 350°C)  
Press. 15.5 MPa (159 kgf/cm<sup>2</sup>)

### Applications

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



## Pillarfoil Packing Low Friction Type For Valves Specifications

Temp. -200–400°C  
(On condition that the temperature of packing section is below 350°C)  
Press. 77.6 MPa (791 kgf/cm<sup>2</sup>) (ANSI class 4500)

### Applications

Water, steam, oil, oil gas, solvent, heat transfer oil, LNG, control valves



## Pillarfoil Packing Low Friction Type For Valves Specifications

Temp. -200–600°C  
(On condition that the temperature of packing section is below 450°C)  
Press. 77.6 MPa (791 kgf/cm<sup>2</sup>) (ANSI class 4500)

### Applications

Water, steam, oil, heat transfer oil, solvent, gas, LNG, control valves, high pressure & high temperature valves, cryogenic valves, high pressure gas valves



## Pillar Non-Asbestos White Packings Specifications

PH 4 to 10  
Temp. 100°C  
Press. 1.0 MPa (10 kgf/cm<sup>2</sup>)  
Velocity 10 m/s  
PV valve 4.9 MPa·m/s (50 kgf/cm<sup>2</sup>·m/sec)

### Applications

Water, sea water, weak acid, weak alkali, general-purpose pumps



## Pilafion Fiber Packing Specifications

PH 0 to 14  
Temp. 200°C  
Press. ANSI class 600

### Applications

valve for oxygen, foods, and fluids to prohibit pollution



## Pilafion Fiber Packings Specifications

PH 0 to 14  
Temp. -100–260°C  
Press. 10.3 MPa (106 kgf/cm<sup>2</sup>) (in valves)  
1.0 MPa (10 kgf/cm<sup>2</sup>) (in pumps)  
Velocity 10 m/s  
PV valve 4.9 MPa·m/s (50 kgf/cm<sup>2</sup>·m/sec)

### Applications

Solvent, strong acid, strong alkali, pumps, valves, mixers



## Special Pilafion Fiber Packings Specifications

PH 0 to 14  
Temp. -200–260°C  
Press. 1.6 MPa (16 kgf/cm<sup>2</sup>) (in pumps)  
10.3 MPa (106 kgf/cm<sup>2</sup>) (in valves)  
Velocity 16 m/sec  
PV valve 12.3 MPa·m/s (125 kgf/cm<sup>2</sup>·m/sec)

### Applications

Solvent, strong acid, strong alkali, pumps, valves, mixers



## Pillar Low Torque Special aramid Fiber Packing Specifications

PH 4 to 10  
Temp. 200°C  
Press. 1.0 MPa (10 kgf/cm<sup>2</sup>) (in pumps)  
ANSI class 600 (in valves)  
Velocity 10 m/sec  
PV valve 6.4 MPa·m/s (65 kgf/cm<sup>2</sup>·m/sec)

### Applications

Water, seawater, oil, pumps, valves



## Packing For Low-Torque Adjusting Valves Specifications

PH 0 to 14  
Temp. 260°C  
Press. ANSI class 600

### Applications

Oil solvent, acid, alkali, valves, control valves



## Pilafion Fiber Packing Specifications

PH 0 to 14  
Temp. 200°C  
Press. 1.0 MPa (10 kgf/cm<sup>2</sup>) (in pumps)  
Velocity 10 m/sec  
PV valve 4.9 MPa·m/s (50 kgf/cm<sup>2</sup>·m/sec)

### Applications

Solvent, strong acid, strong alkali, pumps, valves, mixers



## Pillar Aramid Fiber Packing Specifications

PH 2 to 14  
Temp. 260°C  
Press. 1.6 MPa (16 kgf/cm<sup>2</sup>) (in pumps)  
10.3 MPa (106 kgf/cm<sup>2</sup>) (in valves)  
Velocity 16 m/sec  
PV valve 17.7 MPa·m/s (150 kgf/cm<sup>2</sup>·m/sec)

### Applications

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



## Special Pilafion Super Packing For Chemical Pumps Specifications

PH 0 to 14  
Temp. -100–260°C  
Press. 1.2 MPa (12.5 kgf/cm<sup>2</sup>) (in pumps)  
Velocity 20 m/sec  
PV valve 12.3 MPa·m/s (125 kgf/cm<sup>2</sup>·m/sec)

### Applications

Water, oil, acid, alkali, pumps, paper manufacture



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

PH 2 to 14  
Temp. 200°C  
Press. 1.6 MPa (16 kgf/cm<sup>2</sup>) (in pumps)  
ANSI class 600 (in valves)

### Applications

Water, oil, reciprocating pumps, low-speed dry machine



## Pilafion For Big-Size Rotary Machine Packings Specifications

PH 0 to 14  
Temp. 260°C  
Press. 15.5 MPa (159 kgf/cm<sup>2</sup>)

### Applications

Kneeder, mixers dryer, digester, manholes



## Pilafion Ramie Packing Specifications

PH 6 to 8  
Temp. 80°C  
Press. 0.6 MPa (6.5 kgf/cm<sup>2</sup>) (in pumps)  
Velocity 10 m/sec  
PV valve 3.4 MPa·m/s (35 kgf/cm<sup>2</sup>·m/sec)

### Applications

Water, sea water, oil, stern tubes, pumps