



**M.W.A. WELDING (THAILAND) CO., LTD.**

68/88 หมู่ 6 ตำบลเสาธงหิน อำเภอบางใหญ่ จังหวัดนนทบุรี 11140

โทร: 02-9030911-2 โทรสาร: 02-9030916

Email: mwathailand@hotmail.com



**PTFE PACKING**

**ประเก็นเชือกเทปลอน**



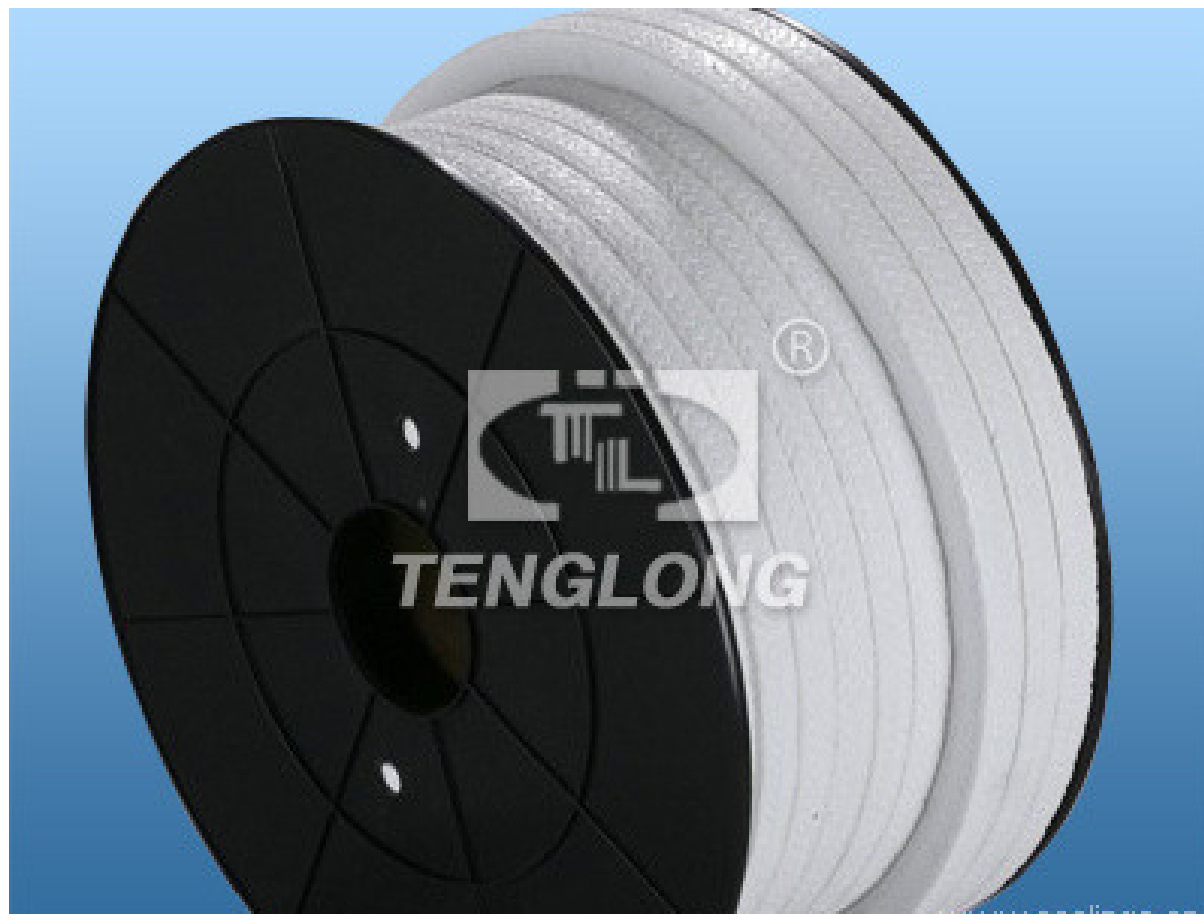




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# Pure PTFE Packing



### Description:

STYLE 6000EXP is made of 100% white expanded PTFE yarn. It contains no impregnate , has no lubricant, and has no finish treatment as it is designed for valves and pumps used in food processing as well as other low speed services.

STYLE 6000EXP is fast and simple to install, with minimum maintenance requirements.

**High chemical resistance, very low coefficients of friction** suitable for Pharmaceuticals, paper mills, fiber plant, where high purity and corrosion resistance is required.

**Application areas:** It can be used in centrifugal and rotary shafts, reciprocating applications, and valve stems, sliders, mixers, vessels and pumps, power industry, and etc.

**Not suitable for:** Molten alkali metals and fluorine compounds at high temperatures and pressures

### Application Data:

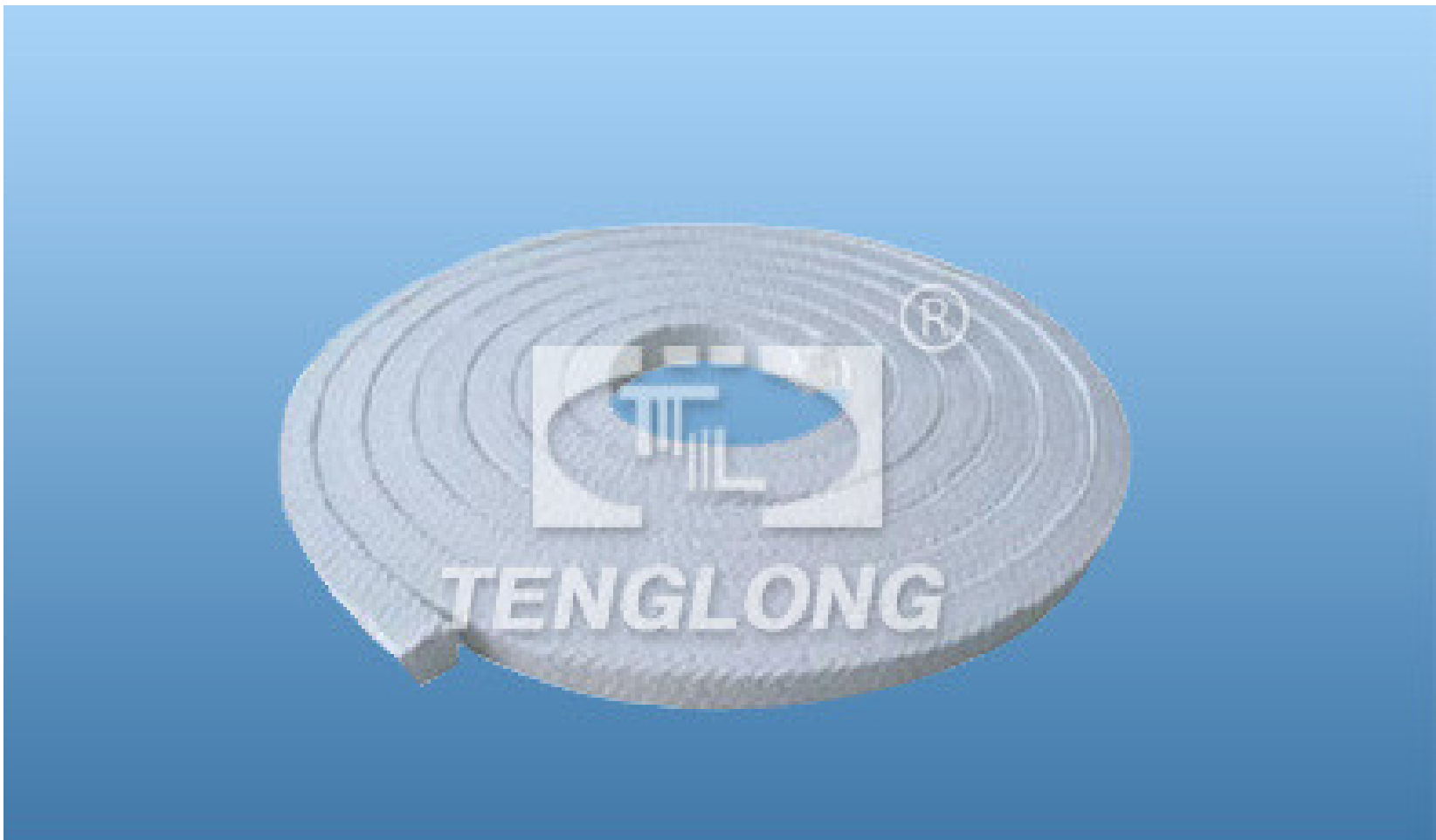
			
Pressure: bar	20	100	200
Speed: m/s	22.8	3	1.5
PH Range	0-14		
Temp. °C	-180 to + 260		
Density(g/cm <sup>3</sup> )	1.3		



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## Cotton PTFE Packing



### Description:

Cotton Packings with PTFE Impregnation made of long cotton fiber yarn impregnated with PTFE and additives. The packing has a **low coefficient offriction & resilient and flexible**.  
(PH:4-10)

### Application:

Universal packings, for Rotary, reciprocating pumps, in ship building and domestic fresh water pumps

### STOCK DIMENSION:

mm sq.	3.2	4	5	6	8	10	11	12	14	16	18	20	22	25
m/kg abt.	75	50	33.3	23	13	8.3	7.0	5.6	4.3	3.4	2.6	2.2	1.8	1.4
Inch Sq.	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	7/8"	1"

### APPLICATION DATA:

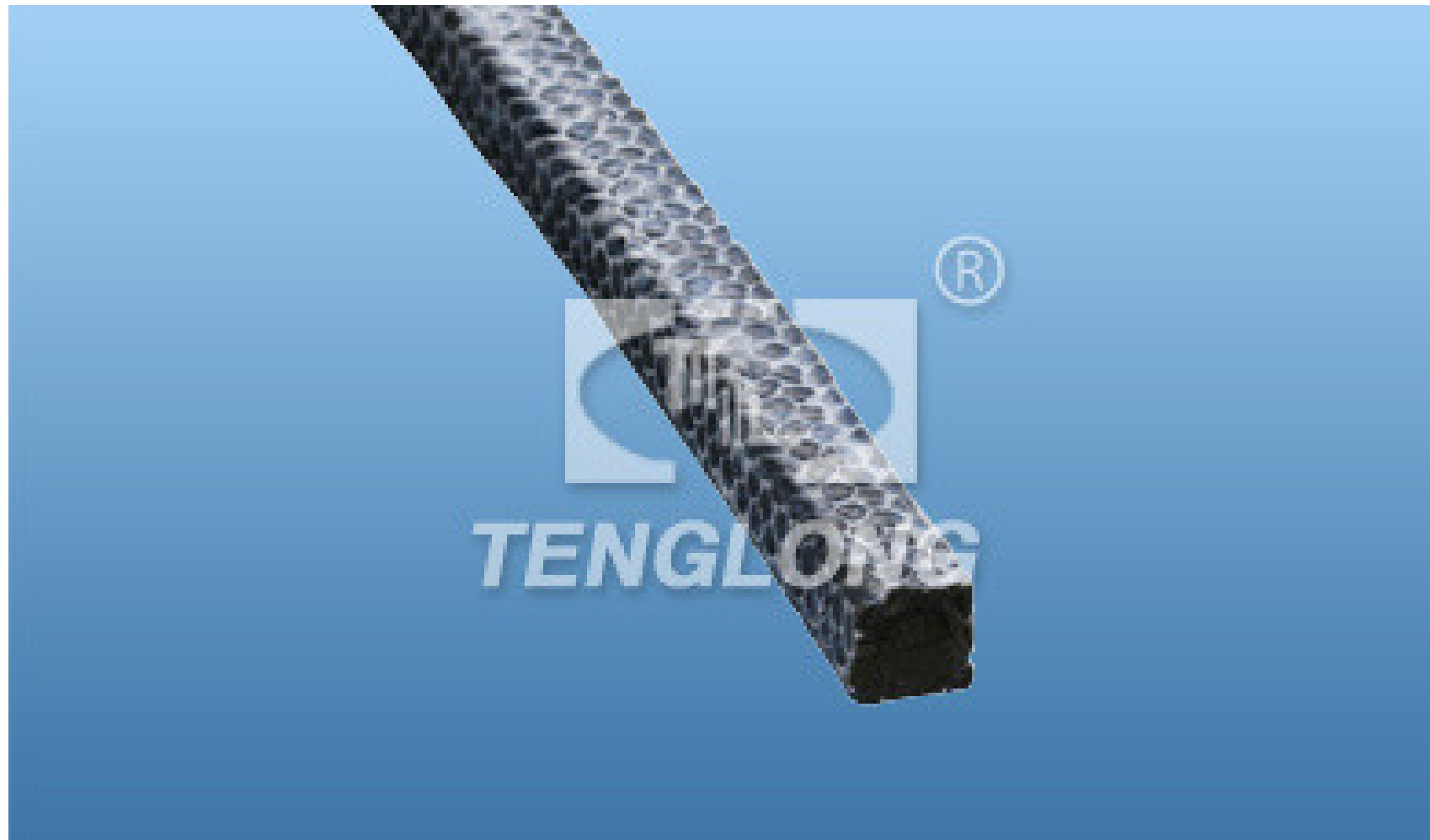
T C	130C		
P bar	70	20	10
V m/s	10		
PH	6-8		



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# Carbon PTFE Packing



### Description:

STYLE 5600 is made of carbonized poly acrylamide fiber and finished with PTFE dispersion and lubricant, ***inert to almost all corrosive chemicals***, suitable for liquid and gaseous, acids, lye, solvents, adhesives, abrasive and crystalline media like sewage etc.




### Application Areas:

STYLE 5600 can be used in pumps, agitators mixers and kneader centrifugal pumps, sliders, stirring equipment, valves, paper mill etc.

### Not suitable for:

Strongly oxidizing media such as ileum, fuming nitrite acid and gaseous fluorine.

### Application Data:

STYLE 5600			
Pressure: bar	300	100	20
Speed: m/s	16	2	2
PH Range	2-12		
Temp. °C	Max. + 260		
Density(g/cm <sup>3</sup> )	1.3		

STYLE 5600W			
Pressure: bar	20	100	180
Speed: m/s	22.8	3	1.5
PH Range	2-12		
Temp. °C	-180 to + 260		
Density(g/cm <sup>3</sup> )	1.35-1.40		





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# Kevlar PTFE Packing



### Description:

STYLE 6500 (Aramid fiber packing) is made of Du Pont's continuous filament Kevlar yarn impregnated with PTFE emulsion and processed with lubricant, suitable for most chemicals, water, steam, oils, solvents, abrasive sand, slurry and other gritty media

Kevlar is **as high as the steel-like strength**, resist more serve media and **higher pressure**. It can be installed separately or to combine rings with other kinds of packing into seals packing ring set.

### Application Areas:

STYLE 6500 can be used in rotary pump, valves, mixers, reactors, pulp and paper, pharmaceutical, food, sugar, chemical and petrochemical, power stations, and steel mills.

### Not Suitable For:

Highly concentrated acids, caustic solutions, alkali metals, oxygen

### Application Data:

			
Pressure: bar	70	100	100
Speed: m/s	20	1.5	2
PH Range	2-12		
Temp. °C	-180 to + 260		
Density(g/cm <sup>3</sup> )	1.40-1.45		



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# PTFE-Graphite with Kevlar Fiber Packing



### Description:

STYLE 6500G is high-quality combination of PTFE with graphite incorporated yarn with corner of kevar fiber, to prevent gap extrusions with the **high pressure** and **temperature range**, **good sliding velocity** and **thermal conductivity**. It was processed with high lubricant and impregnated PTFE emulsion.

### Application Areas:

STYLE 6500G/6600G can be used in piston pumps, mixers, stirrers, reactors, for industrial and chemical process valves, paper mill good for high pressure applications.

**Suitable For:** cold and hot water, oils, solvents, greases, dituted acids and lye, brine , sewage.

### Not Suitable For:

High concentrated acids and lye, alkali metals, fluorine and fluorione compounds at high temperatures.

### Application Data:

			
Pressure: bar	31	100	100
Speed: m/s	22	3	2
PH Range	2-12		
Temp. °C	-180 to + 260		
Density(g/cm <sup>3</sup> )	1.40-1.45		





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## Ramie PTFE Packing



### Description:

Ramie fiber is very soft and easy to be impregnated. It turn to be with higher strength, better anti-corrosion and attrition resistance after impregnation of PTFE dispersion.

The packing made of ramie fiber has very slim attrition to the shaft, so it's an ideal material to be used in sea water, clean water with low temperature, low speed, and equipment with the media of food, oil, and fruit juicy, ect.

STYLE NO.: 4500

### Specification:

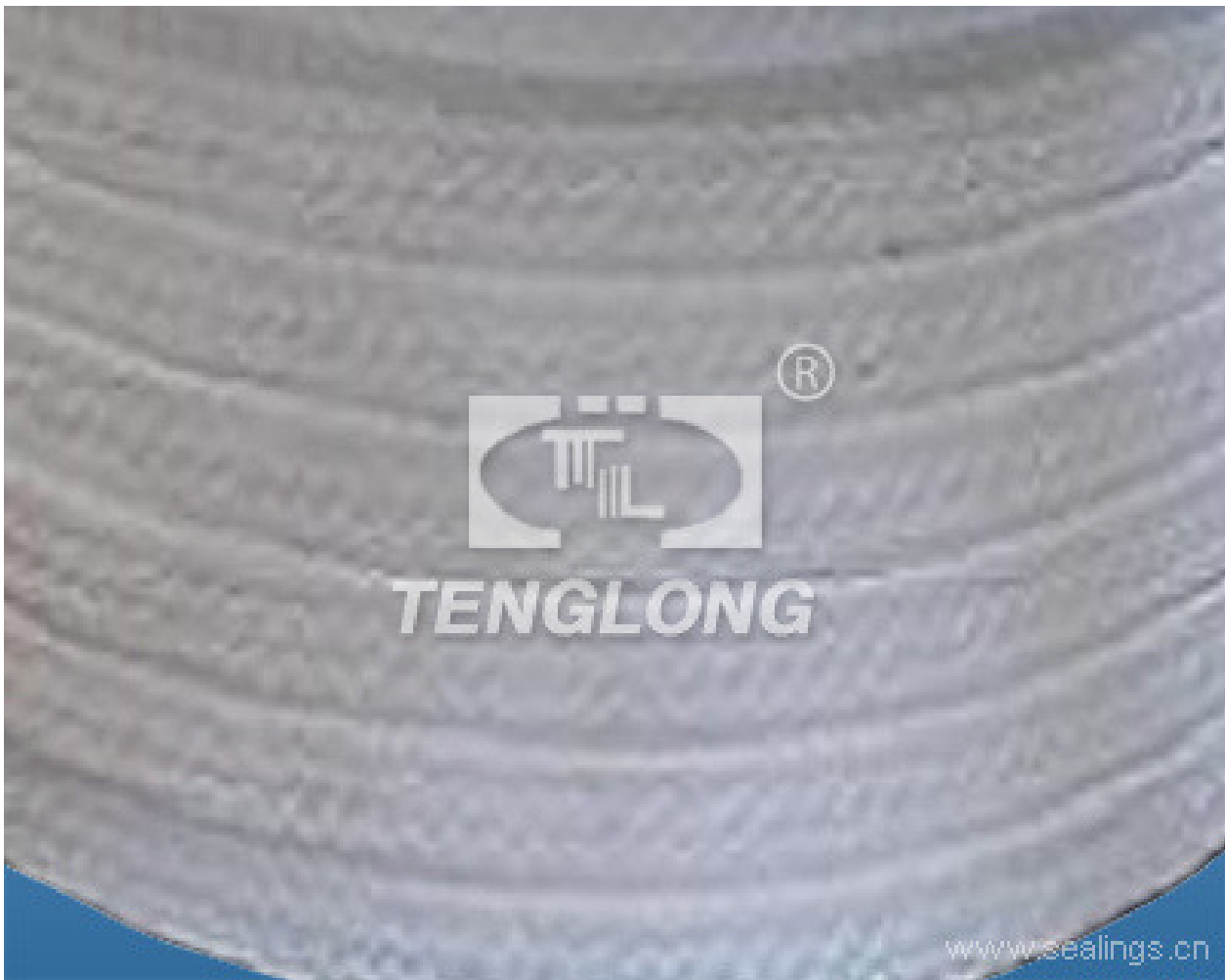
Density		1.25g/cm 3
PH range		5~11
Maximum Temperature Deg		130
Pressure bar	Rotating	20
	Reciprocating	20
	Static	30
Shaft speed	m/s	10



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## Fiberglass PTFE Packing



### Description:

It is diagonally braided by C or E-glass fiber yarns which are pre-impregnated by PTFE suspension liquid, afterward it will be re-impregnated by PTFE and lubricated by silicone oil, it is one of the most popular and ideal packings for the replacement of asbestos PTFE packing.

### Specification:

Item	Unit	Value
Temperature	C degree	-200 up to 280
Pressure		
Rotating	bar	20
Reciprocating		40
Valves		150
velocity	m/s	10
PH value	-	2-13
Density	g/cm3	1.4





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## Kylon Fiber PTFE Packing



### Description:

Braided from Kynol™ fiber and PTFE fiber. It contains the advantage both PTFE and kynol. It has good strength and lubricates. It is a clean packing and high pressure conditions than using pure PTFE packings

### Application:

Suited well where graphite impregnation not be acceptable. For abrasive media, and where contamination is not permitted chemical plants and pulp and paper mills. Rotating and reciprocating pumps, washer journals, liquor pumps, refiners etc.

### Specificaion:

Material	Kynol fiber and PTFE
Temperature Range	-200 up to +260 oC atmosphere
Process	
Rotating	20 bar
Reciprocating	100 bar
Static	200 bar
Shaft Speed	20m/s in rotary
PH	1~13
Density	1.5 g/cm3



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# Ramie PTFE Packing With Oil



### Description:

Ramie PTFE Packing is made of ramie fiber impregnated with PTFE emulsion, and lubricant.

Ramie Packing For used in Marine , paper mill applications such as filters, refiners, pumps and valves in the brewing and beverage industry, ship-building and other fields. Stern tubes, rubber posts, Jordan and stock pump.

**Suitable For:** Cold and hot water, hydrous solutions containing solids, cellulose slurry, brine , oils, greases etc.

### Not suitable for:

Acids and high concentrated lye, oxygen.




Ramie Fiber Packing Impregnated PTFE Without Lubricant (STYLE 4500)

Ramie Fiber Packing Impregnated PTFE With Silicon Rubber Core(STYLE4500SC)

Ramie Fiber Packing With Graphite Coated (STYLE4500GRA)

Flex packing Impregnated PTFE With Lubricant (STYLE 4600)

### Application Data:

			
Pressure: bar	25	100	100
Speed: m/s	1.5	2	12
PH Range	5-9		
Temp. °C	-50 to + 140		
Density(g/cm <sup>3</sup> )	1.45~1.50		





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## Lubricant PTFE Packing



### Description:




STYLE 6000W is Interlock braided PTFE yarn, Long lubricant squeezed out under operating pressure soft , self-lubrication, applicable for dynamic seal at high linear speed. Low coefficient of friction result in easy shaft running. In centrifugal pumps, control valves and special applications in the chemical, food stuffs and pharmaceutical industries.

### Application areas:

STYLE 6000W can be used in valves, plunger pumps, agitators, mixers, expansion joints, etc. Specifically suited for high pressure valves

STYLE 6000W is suitable for water, steam, concentrated acids and caustics ,solvents, oils, fatty acids, detergents ,aggressive gases, resistant to gamma and neutron rays, hydrogen, heat transfer oils, and most other chemicals and solvents

### Application Data:

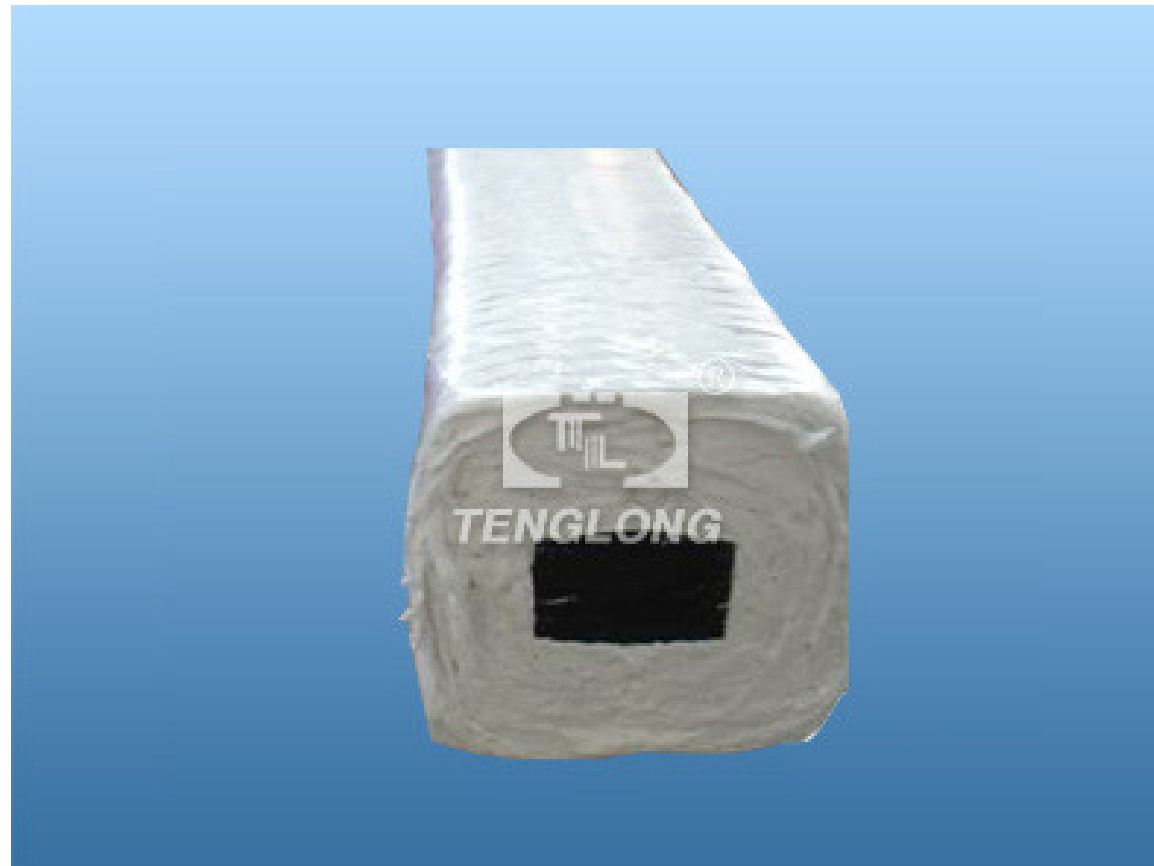
			
Pressure: bar	11	100	100
Speed: m/s	8	2	1.5
PH Range	0-14		
Temp. °C	-240 to + 260		
Density(g/cm <sup>3</sup> )	1.65-1.75		



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# Pure PTFE Packing with Silicon Core



### Description:

STYLE 6000SC is Braided with 100% pure expanded PTFE yarn, reinforced with silicone rubber cords.

STYLE 6000SC has excellent resistance and is designed to sealing applications where large run out or eccentricity of the shaft exists.

### Application areas:




STYLE 6000SC can be used in food processing services. Recommended for mixers, agitators, food processing equipment , and reciprocating pumps.

**Suitable For:** Pharmaceutical and food applications, potable water, solvents, oils, gasses, effluents, oxygen etc.

### Not suitable for:

Molten alkali metals and fluorine compounds at high temperatures and pressures.

### Application Data:

			
Pressure: bar	30	250	250
Speed: m/s	5	2	1.5
PH Range	3-10		
Temp. °C	-68 to + 260		
Density(g/cm <sup>3</sup> )	1.32-1.42		





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# PTFE Filament with PTFE Packing



### Description:

STYLE 6800 is Braided of pure PTFE filament yarns, impregnated with ptfe dispersion, firm high-density braided packing.

### Application areas:

STYLE 6800 can be used in a wide range of process chemicals and concentrated acids, valve stems, rotary shafts, reciprocation equipment, and other processing equipment high peripheral speed, rod, pistons.

**Suitable For:** water, steam, concentrated acids and caustics, solvents, oils, fatty acids, detergents, aggressive gases , resistant to gamma and neutron rays, hydrogen, heat transfer oils, and most other chemicals and solvents.

### Not suitable for:

Molten alkali metals and fluorine compounds at high temperatures and pressures.

### Application Data:

			
Pressure: bar	20	100	200
Speed: m/s	4	2	2
PH Range	0-14		
Temp. °C	-240 to + 260		
Density(g/cm <sup>3</sup> )	1.75		



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# PTFE Filament with Oil Packing



### Description:

STYLE 6800W is Braided from Pure PTFE filam yarns, impregnated with PTFE emulsion and lubricant.

### Application areas:




STYLE 6800W can be used in valves, plunger pumps, agitators, mixers, expansion joints, etc, Specifically suited for high pressure valves.

**Suitable for:** water, steam, concentrated acids and caustics, solvents, oils, fatty acids, detergents, aggressive gases, resistans to gamma and neutron rays, hydrogen, heat transfer oils , and most other chemicals and solvents.

### Not suitable for:

Molten alkalimetals and fluorine compounds at high temneraturees and pressures

### Application Data:

			
Pressure: bar	20	200	200
Speed: m/s	4	2	2
PH Range	0-14		
Temp. °C	-240 to + 260		
Density(g/cm <sup>3</sup> )	1.80		





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### Graphite PTFE Packing (Similar: GFO)



#### Description:

STYLE 6200GFO was made from graphite-PTFE compound without lubricant very good thermal conductivity. High flexibility and volumetric stability, no embrittlement or ageing. Long life with good operating efficiency, gentle treatment of shafts.

#### Applicaton areas:

STYLE 6200GFO/STYLE 6200 can be used in pumps, agitators mixers and kneader centrifugal pumps , agitators,involving high peripheral speeds and temperatures, where pure PTFE packing fail.

**Suitable for:** liquid and gaseous, acids, lye, solvents, adhesives, abrasive and crystalline media like sewage, slurries, salt, etc.

#### Not suitable for:

Highly oxidizing media like oleum, fumin nitric acid, aqua region, gaseous fluorine , lacquer, and paints.

#### Application Data:

			
Pressure: bar	25 for 6200; 50 for 6200GFO	250	100
Speed: m/s	20	2	2
PH Range	0-14		
Temp. °C	-200 to + 260		
Density(g/cm <sup>3</sup> )	Abt. 1.50-1.55 for 6200GFO; 1.85 -1.75for 6200		



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# Acrylic Packing With PTFE




### Description:

STYLE 2200 was made from Synthetic Composite yarn, and impregnated with PTFE emulsion (No lubricants or oils), To provide extra chemical resistance,

STYLE 2200 is widely used in Application of Alkalies, mild acids, solvents, steam and oils, It is recommended for rotary shafts, reciprocating applications, and valves.

### Application Data:

			
Pressure: bar	20	100	150
Speed: m/s	20	1.5	2
PH Range	1-13		
Temp. °C	+ 260		
Density(g/cm <sup>3</sup> )	1.0-1.4		





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# Acrylic Packing PTFE Impregnated with Lubricant



### Description:

STYLE 2400 braided from high strength synthetic fiber pre-impregnated with PTFE, and impregnated during square brading , It has excellent properties of sealing, lubricating and resistance to chemicals,

### Application:

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

### Application Data:

			
Pressure: bar	20	100	180
Speed: m/s	22.8	3	1.5
PH Range	2-12		
Temp. °C	-180 to + 260		
Density(g/cm <sup>3</sup> )	1.45-1.50		