

**TULIP Aralon**  
**Style 38** Aramid Fibre with PTFE Lubricants

**HIGH QUALITY ABRASION RESISTANT PACKING FOR WOOD STOCK, WOOD PULP AND STEAM**

**Construction**

Braided from aramid fibre which has been impregnated with a solid PTFE lubricant that will not migrate, thus almost eliminating periodic gland adjustment.

**Features**

Aramid fibre has the highest tensile strength of any known fibre, which makes it highly resistant to abrasion and chemicals. The PTFE lubricant gives it a low co-efficient of friction with an added degree of chemical resistance. Style 38 is clean, inert, non-toxic and can be used for various applications.

**Service**

Especially suited to the paper industry, it can be used in hydropulpers, digester pumps, mixers and door seals. An excellent packing where heavy slurries are evident, in the food, paper, steel, petroleum and chemical industries. General service in rotating or reciprocating shafts for caustics, mild acids, chemicals, hot and cold water, paper stock, wood pulp, steam, air, oil, gases, solvents and general chemical plant operations.

**Specifications**

<b>Colour</b>	<b>Yellow</b>
<b>Temperatures</b>	<b>-68 C to 290 C</b>
<b>Ph Range</b>	<b>2 - 12</b>
<b>Shaft Speed</b>	<b>10 m/s</b>

**AVAILABILITY** Cross section sizes available.

Inch	mm	1Mrt	4Mtr	8Mtr
1/8	3.1	✓	✓	✓
3/16	4.7	✓	✓	✓
1/4	6.3	✓	✓	✓
5/16	7.9	✓	✓	✓
3/8	9.5	✓	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓



**TULIP Araflon**  
**Style 38P** Aramid & other Fibres with PTFE Lubricants

**HIGH TENSILE STRENGTH COMBINES WITH ADDED CHEMICAL RESISTANCE**

**Construction**

Braided from synthetic aramid fibre combined with a textured fiberglass to maintain its strength at higher temperatures. This yarn is then steeped in PTFE dispersion until thoroughly impregnated.

**Features**

The extreme high tensile strength of aramid fibre as been combined within a unique blend of other synthetic fibres to prevent the breakdown of the packing at high shaft speeds. Araflon would be an excellent choice against high temperature and abrasion desirable in the food, chemical and paper industries where contamination cannot be tolerated.

**Service**

General service for rotating and reciprocating shafts and valves. Caustics, mild acids, wood pulp, paperstock, hydropulpers, digester pump mixers and door seals, hydrocarbons, hot and cold water, steam, slurries, gas and air.

**Specifications**

<b>Colour</b>	<b>Yellow</b>
<b>Temperatures</b>	<b>-68 C to 300 C</b>
<b>Ph Range</b>	<b>2 - 12</b>
<b>Shaft Speed</b>	<b>12 m/s</b>

**AVAILABILITY** Cross section sizes available.

Inch	mm	1Mrt	4Mtr	8Mtr
1/8	3.1	X	✓	✓
3/16	4.7	✓	✓	✓
1/4	6.3	✓	✓	✓
5/16	7.9	✓	✓	✓
3/8	9.5	✓	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓



**TULIP Puralon**  
Style 40 White Pure PTFE

**IDEAL FOR THE FOOD AND CHEMICAL INDUSTRY  
UNSURPASSED AS A VALVE PACKING**

**Construction**

Braided from yarn made entirely from long fibres of pure PTFE.

**Features**

Puralon 40 has an extremely low coefficient of friction and is self lubricating. The packing is vacuum impregnated with PTFE dispersion, which reduce permeability and increases resistance to gases and low viscosity liquids. Puralon 40 maintains its volume under working conditions as there are no excessive lubricants to migrate, thus almost completely eliminating gland followup. Puralon 40 is non toxic and inert to most chemicals.

**Service**

Mainly used in the food and chemical industries for reciprocating rods, slow moving centrifugal pumps, expansion joints and all types of valves against solvents, hot and cold acids, strong caustics and refrigerants, where a lubricant other than PTFE is not acceptable.

**Specifications**

<b>Colour</b>	<b>White</b>
<b>Temperatures (valve)</b>	<b>-240 C to 300 C</b>
<b>Temperatures (pumps)</b>	<b>-240 C to 260 C</b>
<b>Ph Range</b>	<b>0 - 14</b>
<b>Shaft Speed</b>	<b>4 m/s</b>

**AVAILABILITY** Cross section sizes available.

Inch	mm	1Mrt	4Mtr	8Mtr
1/8	3.1	✓	✓	✓
3/16	4.7	✓	✓	✓
1/4	6.3	✓	✓	✓
5/16	7.9	✓	✓	✓
3/8	9.5	✓	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓

**Note: Avoid overheating the surface in contact with the shaft by careful fitting and use of minimum gland pressure.**



**TULIP Puralon L**  
Style 40L White Prelubricated Pure PTFE

**IDEAL FOR HIGH SPEED SHAFTS IN THE FOOD  
AND CHEMICAL INDUSTRIES**

**Construction**

Braided from a pre-lubricated pure PTFE yarn, this unique patented yarn has undergone a special expanded process, impregnated with PTFE dispersion and an inert lubricant.

**Features**

Puralon 40L has an extremely low co-efficient of friction and is self lubricating. It is non-toxic, inert to most chemicals and is an excellent choice for the food and chemical industries where contamination is not tolerated.

**Service**

Suitable for centrifugal and reciprocating pumps, valves and any application where low co-efficient of friction is essential for higher surface speeds without charring or glazing. Excellent for use against hot and cold water, steam, hot and cold oils, air, strong acids and alkalis, hydrocarbon, solvents, foodstuffs, gas and all chemical applications except molten alkali metals and high temperature fluorine.

**Specifications**

<b>Colour</b>	<b>White</b>
<b>Temperatures</b>	<b>-240 C to 260 C</b>
<b>Ph Range</b>	<b>0 - 14</b>
<b>Shaft Speed</b>	<b>6 m/s</b>

**Availability** Cross section sizes available.

Inch	mm	1Mrt	4Mtr	8Mtr
1/8	3.1	✓	✓	✓
3/16	4.7	✓	✓	✓
1/4	6.3	✓	✓	✓
5/16	7.9	✓	✓	✓
3/8	9.5	✓	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓



**TULIP Graftek**  
Style 40GFO Graphite PTFE

**HIGH QUALITY GENERAL PURPOSE PUMP AND VALVE PACKING IDEAL FOR ALL TYPES OF INDUSTRIES**

**Construction**

Braided from the highest quality graphite in a PTFE matrix to control graphite migration, plus a proprietary high temperature lubricant.

**Features**

A graphite filled PTFE yarn which has undergone a special expanded process making it the most resilient form of PTFE packing. Due to this special process the graphite is evenly dispersed forming a completely homogenous yarn. High thermal conductivity and a low coefficient of friction are characteristics of this packing, which ensures low operating temperatures and stable conditions after start up in pumping applications.

**Service**

Ideal for applications in the chemical industry, pump and paper mills, steel mills, petrochemical plants and refineries. All reciprocating and rotary services including steam valves, boiler feedpumps, and other difficult areas. Unaffected by most chemicals with the exception of strong oxidising mediums.

**Specifications**

<b>Colour</b>	<b>Black</b>
<b>Temperatures</b>	<b>to 288 C</b>
<b>Pressure</b>	<b>100 bar</b>
<b>Ph Range</b>	<b>0 - 14</b>
<b>Shaft Speed</b>	<b>15 m/s</b>

**Availability** Cross section sizes available.

Inch	mm	1Mrt	4Mtr	8Mtr
1/8	3.1	✓	✓	✓
3/16	4.7	✓	✓	✓
1/4	6.3	✓	✓	✓
5/16	7.9	✓	✓	✓
3/8	9.5	✓	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓



**TULIP Marinelon**  
Style 42 PTFE - FLAX

**AN ECONOMICAL PACKING SUITABLE FOR MARINE AND FOOD APPLICATIONS**

**Construction**

Manufactured from pure graded Flax Yarn which has been steeped in PTFE lubricant, then braided and coated in more PTFE to ensure a uniform impregnation of lubricants. The yarn is free from raw, coarse or short fibres to ensure a uniform high quality product.

**Features**

An excellent low cost, non-contaminating product of high quality where low temperatures and medium shaft speeds are prevalent.

**Service**

General service in rotating and reciprocating applications in cold water, brine, and mild chemicals in the marine and food industries. Excellent in marine stern glands and rudder posts.

**Specifications**

<b>Colour</b>	<b>White</b>
<b>Temperatures</b>	<b>to 120 C</b>
<b>Ph Range</b>	<b>4 - 10</b>
<b>Shaft Speed</b>	<b>10 m/s</b>

**Availability** Cross section sizes available.

Inch	mm	1Mrt	4Mtr	8Mtr
1/8	3.1	✓	✓	✓
3/16	4.7	✓	✓	✓
1/4	6.3	✓	✓	✓
5/16	7.9	✓	✓	✓
3/8	9.5	✓	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓



**TULIP Puragraph  
Style 47**

**FOR EXTREME HIGH TEMPERATURE  
AND CHEMICALS**

**Construction**

Braided from pure high tensile graphite filament yarns.

**Features**

Excellent low friction, high temperature pump and valve packing. Style 47 is also chemically inert, non toxic and capable of withstanding the most severe extremes of temperatures and the majority of chemicals.

**Service**

General service rotary and reciprocating applications in power stations, steel and chemical industries, petrochemical operations and covers the requirements of almost all applications including valves, centrifugal pumps, boiler feed pumps and expansion joints. (Not for fuming nitric acid or fluorine).

**Specifications**

<b>Colour</b>	<b>Black</b>
<b>Temperatures (oxidising atmos)</b>	<b>to 430 C</b>
<b>Temperatures (non-oxidising atmos)</b>	<b>-240 C to 2000 C</b>
<b>Ph Range</b>	<b>0 - 14</b>
<b>Shaft Speed</b>	<b>15 m/s</b>

**AVAILABILITY** Cross section sizes available.

Inch	mm	1Mrt	4Mtr	8Mtr
1/8	3.1	X	✓	✓
3/16	4.7	X	✓	✓
1/4	6.3	X	✓	✓
5/16	7.9	X	✓	✓
3/8	9.5	X	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓



**TULIP Graphite Synthetic  
Style 48G**

**GENERAL PURPOSE PUMP AND VALVE PACKING**

**Construction**

Braided from continuous filament synthetic yarns steeped in special formulations of high temperature lubricants and coated in graphite.

**Features**

Excellent general service packing. The high temperature lubrication formulation makes all the difference. The ductile nature of the packing prevents wicking and provides superior sealability, especially in multi-purpose medium to high pressure applications.

**Service**

General service on rotary and reciprocating equipment, compressors and door seals for hot and cold water, steam, oil, gas, air, mild acids and alkalines.

**Specifications**

<b>Colour</b>	<b>Black</b>
<b>Temperatures</b>	<b>to 290 C</b>
<b>Ph Range</b>	<b>4 - 10</b>
<b>Shaft Speed</b>	<b>10 m/s</b>

**Availability** Cross section sizes available.

Inch	mm	1Mrt	4Mtr	8Mtr
1/8	3.1	✓	✓	✓
3/16	4.7	✓	✓	✓
1/4	6.3	✓	✓	✓
5/16	7.9	✓	✓	✓
3/8	9.5	✓	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓



**TULIP PTFE Synthetic  
Style 48P**

**GENERAL PURPOSE PUMP AND VALVE PACKING**

**Construction**

Braided from Synthetic Yarns steeped in chemically inert PTFE. On request the braid can then be coated with a lubricant to assist the breaking in period in valves and on high speed shafts. This can be one of two types as per specification.

**Features**

Combines all the advantages of a heat resistant synthetic yarn together with the inertness and lubricating qualities of PTFE. The fibres are saturated and sealed with PTFE providing a low coefficient of friction with a greater degree of chemical protection.

**Service**

Used in the food and chemical industry for general service on rotating and reciprocating shafts, valve spindles against hot and cold water, air, mild caustics and acids, gases, solvents, oils and general chemical plant applications.

**Specifications**

<b>Colour</b>	<b>White</b>
<b>Temperatures</b>	<b>-50 C to 290 C</b>
<b>Ph Range</b>	<b>2 – 12</b>
<b>Shaft Speed T48P</b>	<b>6 m/s</b>
<b>Dry Coating T48SP</b>	<b>8 m/s</b>
<b>Oil Finish T48EP</b>	<b>12 m/s</b>

**Availability** Cross section sizes available.

Inch	mm	1Mtr	4Mtr	8Mtr
1/8	3.1	✓	✓	✓
3/16	4.7	✓	✓	✓
1/4	6.3	✓	✓	✓
5/16	7.9	✓	✓	✓
3/8	9.5	✓	✓	✓
7/16	11.1	X	✓	✓
1/2	12.7	X	✓	✓
9/16	14.2	X	✓	✓
5/8	15.8	X	✓	✓
3/4	19.0	X	✓	✓
7/8	22.2	X	✓	✓
1	25.4	X	✓	✓

**Note:** Shaft Speed depends on varying surface conditions.



**TULIP Spiraseal  
Style 77**

**Construction**

Style 77 is made from finest quality cotton duck treated with a synthetic rubber compound. The treated duck strips are layered carefully, then moulded and vulcanised under high pressure forming an accurate and extremely durable packing. After moulding, the packing is then treated with high temperature lubricants and graphite.

**Features**

Ideally suited to hydraulic services where rods are badly scored or out of alignment.

**Service**

Reciprocating rods in steam, air, vacuum and hydraulic services.

**Specifications**

<b>Colour</b>	<b>Black</b>
<b>Temperatures</b>	<b>to 150 C</b>
<b>Ph Range</b>	<b>5 – 10</b>

**Availability** Cross section sizes available.

Inch	mm	3.7 Mtr
1/8	5.0	✓
3/16	6.0	✓
1/4	6.5	✓
5/16	8.0	✓
3/8	10.0	✓
7/16	11.0	✓
1/2	13.0	✓
9/16	16.0	✓
5/8	19.0	✓
3/4	22.0	✓
7/8	25.0	✓

