Braided packings

# PACKINGS FOR DYNAMIC SEALING

THE FILCOAT® LUBRICATION PROCESS, patented by LATTY

Packings are made of one or several yarn grades and a series of impregnations. These operations are essential steps in the quality packing manufacturing process.

The first impregnation is performed throughout the yarn using our exclusive FILCOAT® process (LATTY patent). The second impregnation is performed during the braiding operation itself. A third impregnation may be applied to packings intended for use with fast moving equipment.

The impregnation of the packings enables us to obtain or improve specific characteristics such as:

Chemical resistance

Thermal conductivity

Stability under pressure

Lubrication (especially during transitional conditions)

Protection against corrosion

Then these fibres are again impregnated during the braiding operation with a mix specific to the use of the packing. These processes significantly reduce frictions and improve the lifespan of the equipment (pumps, valves, etc.).



FILCOAT process

#### THE ADVANTAGE OF LATTY PACKINGS

Since the foundation of our company, we have had a record of providing quality and performance with our ranges of sealing packings and rings.

With our FILCOAT® process, patented by LATTY, we ensure performance and reliability.

Our research for the development of fibres and lubricants allows us to offer a range that includes about fifty different grades of packings  $\frac{1}{2} \frac{1}{2} \frac{1}{2}$ 

Made up of over 70 types of impregnation and 120 different kinds of yarns (aramid, PTFE, graphite, carbon, etc.), the sealing packings are intended for use in the stuffing box of:

ROTARY UNITS: pumps, agitators, stirrers, mixers, feeder screws, etc. RECIPROCATING UNITS: piston pumps, homogenisers, etc.

The quality of the fibres and lubricants combined with LATTY's expertise allows us to offer a range of high-quality products with the following characteristics:

- Sufficient mechanical resistance for the conditions of use
- No shrinkage or as small as possible in temperature
- Good resistance in diverse chemicals (liquid or gas)
- Good resistance to compression, bending, wear and vibrations
- Very low abrasive characteristic to reduce pump sleeve and/or shaft wear.
- Very good lubrication properties
- Excellent heat dissipation characteristics

Our experience of the manufacturing process allows us to offer an optimised stuffing box. All the steps in the manufacture of our packings enable them to keep their appropriate density for your applications during the first tightening operations. This guarantees sustainability of the sealing solutions on your installations.



## THE DIFFERENT FIBRES AND THEIR MAIN CHARACTERISTICS

#### ARAMID FIBRE

- Excellent chemical resistance
- Excellent abrasive resistance
- Outstanding dimensional stability
- High elasticity and elastic recovery
- Very good resistance at high temperatures

#### PTFE FIBRE

- Applied to rotary units and valves with chemically aggressive fluids
- Very good resistance to strong bases and acids
- Reduces friction, which is important with control valves.
- Good resistance to high surface speeds.

#### **SYNTHETIC FIBRE**

- Used up to 200/250°C
- All types of industries except chemicals
- Not suitable for strong acid or alkaline duties

#### CARBON/GRAPHITE FIBRE

- Pure graphite for high-temperature and high-pressure applications
- Suitable for use with thermal shock
- Outstanding chemical inertness
- Used in valves and static applications
- Specific versions for zero fugitive emmsions.

#### COMPRESSED or PREFORMED RINGS AND PACKINGS

Compressed rings and packings or preformed rings offer the following advantages:

- Optimisation of the number of rings
- A reduction up to 30% of the friction, as a result of the presence of lubricating agent that has been specifically developed by LATTY
- Reduced maintenance costs
- Quick and simple installation into the stuffing box, time-saving for maintenance teams and reduced production downtime
- Maximise the operational lifetime of your equipment



#### APPROVALS AND CERTTIFICATIONS































#### TRAINING

LATTY packings provide you perfect sealing efficiency from the first installation, provided rules of best fitting practice have been followed with. For this purpose, we have developed training sessions dedicated to the installation process using our specifically designed training benches.

# LATTYFLON 4488

The aramid-carbon synergy: a robust, durable and reliable packing.

#### **ARAMID-CARBON PACKING, VERY GOOD HEAT DISSIPATION**

- FOR ALL ROTATING AND RECIPROCATING MACHINERY APPLICATIONS
- ENSURES GOOD HEAT DISSIPATION
- LATTY-EXCLUSIVE FILCOAT-PROCESS







### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 300 bar

Temperature: -200 °C to 300°C

Speed: < 30 m/s pH:1-13

#### **COMPOSITION**

Packing made of LATTY-exclusive intimately mixed carbon/aramid yarn, each single yarn being impregnated with PTFE using our exclusive Filcoat-process, then re-impregnated with a mix of PTFE and inert food-grade lubricant during braiding operation. The combination of the mechanical characteristics of aramid associated with the heat dissipation properties of carbon account for the unmatched performance of LATTYflon 4488.

#### TYPES OF INDUSTRIES











#### **FLUIDS**

Item	Dimensions	Description
00101712*	□ 4 mm	35 m / 0,80 Kg
00101491	□6 mm	20 m / 1,12 Kg
00101934*	□ 6,35 mm	20 m / 1,25 Kg
00101467	□8 mm	15 m / 1,34 Kg
00101488	□ 9,5 mm	12 m / 1,66 Kg
00101405	□10 mm	12 m / 1,74 Kg
00101549	□12 mm	11 m / 2,39 Kg
00101436	□12,7 mm	11 m / 2,58 Kg
00101496	□14 mm	10 m / 2,70 Kg
00101647	□15 mm	10 m / 3,44 Kg
00101446	□16 mm	10 m / 3,88 Kg
00101670	□18 mm	10 m / 4,90 Kg
00101492	□19 mm	10 m / 5,40 Kg
00101447	□ 20 mm	10 m / 5,70 Kg
00101469	□ 25.4 mm	10 m / 8.7 Ka

# **LATTYFLON 4757**

Packing for reciprocating, rotary or static applications

#### PACKING FOR RECIPROCATING, ROTARY OR STATIC APPLICATIONS

- OUTSTANDING MECHANICAL RESISTANCE, VERY GOOD HEAT DISSIPATION
- HIGH FLEXIBILITY, MAKES INSTALLATION EASIER
- GRAPHITE-PTFE AND ARAMID PACKING, SELF-LUBRICATING
- LATTY-EXCLUSIVE «FILCOAT»-PROCESS











# OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 1800 bar

Temperature: -200 °C to 300°C

Speed: < 22 m/s pH: 2 - 14

#### COMPOSITION

Multi-yarn packing: the corners of the packing are made of 100% aramid yarns, each single yarn being impregnated with PTFE using our exclusive «Filcoat»-process, then re-impregnated with a mix of PTFE and inert lubricant during braiding operation.

#### TYPES OF INDUSTRIES









#### **FLUIDS**

Item	Dimensions	Description
00100848	□6 mm	20 m / 1,20 Kg
00101618*	□ 6,35 mm	20 m / 1,34 Kg
00100653	□ 8 mm	15 m / 1,30 Kg
00101054*	□ 9,52 mm	12 m / 1,48 Kg
00100654	□10 mm	12 m / 1,63 Kg
00100655	□12 mm	11 m / 2,25 Kg
00101545	□12,7 mm	11 m / 2,47 Kg
00100656	□14 mm	10 m / 2,86 Kg
50976	□15 mm	10 m / 3,31 Kg
00101547	□16 mm	10 m / 3,83 Kg
00101413	□18 mm	10 m / 4,92 Kg
00101471	□19 mm	10 m / 5,54 Kg
00101756	□ 20 mm	10 m / 5,74 Kg
00101701	□22 mm	10 m / 6,80 Kg
00101700	□ 25,4 mm	10 m / 9,44 Kg

# **LATTYFLON 4758**

High performance with reciprocating applications

#### **GOOD RESISTANCE WITH ABRASIVE FLUIDS**

- SOLUTION FOR SEALING RECIPROCATING UNITS AND ROTARY APPLICATIONS WITH AGGRESSIVE FLUIDS.
- SILICONE-FREE PACKING
- SELF-LUBRICATING
- LATTY-EXCLUSIVE «FILCOAT»-PROCESS











## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure : 0 to 1000 bar Temperature : -200 °C to 300°C

Speed: < 10 m/s pH: 2 - 14

#### **COMPOSITION**

Multi-yarn packing: the corners of the packing are made of 100% aramid yarns impregnated with PTFE using our exclusive «Filcoat»-process, while the friction faces are made of lubricated and silicone-free 100% PTFE, then re-impregnated with a PTFE mix during braiding operation.

#### TYPES OF INDUSTRIES









#### **FLUIDS**

Item	Dimensions	Description
00100194	□ 4 mm	35 m / 0,84 Kg
00100195	□ 5 mm	25 m / 0,86 Kg
00100196	□6 mm	20 m / 1,02 Kg
00101105*	□ 6,35 mm	20 m / 1,14 Kg
00100198	□ 8 mm	15 m / 1,30 Kg
00100199	□ 9,5 mm	12 m / 1,45 Kg
00100200	□10 mm	12 m / 1,56 Kg
00100201	□11 mm	11 m / 1,89 Kg
00100202	□12 mm	11 m / 2,37 Kg
00100203	□12,7 mm	11 m / 2,61 Kg
00100204	□14 mm	10 m / 2,73 Kg
00100206	□16 mm	10 m / 3,60 Kg
00100713	□18 mm	10 m / 4,40 Kg
00100714	□19 mm	10 m / 4,90 Kg
00100715	□ 20 mm	10 m / 5,43 Kg
00100717	□ 25,4 mm	10 m / 8,94 Kg

# **LATTYTEX 4777**

General-purpose packing

#### FOR EVERYDAY APPLICATIONS IN ALL INDUSTRIES.

- ARAMID/STAPLE RAYON YARNS ON THE CORNERS
- POLYACRYLIC FRICTION FACES
- LATTY-EXCLUSIVE «FILCOAT»-PROCESS







## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 60 bar

Temperature : -50  $^{\circ}$ C to 200 $^{\circ}$ C

Speed: < 15 m/s pH: 3 - 11

#### COMPOSITION

Compound packing made of blended yarns: aramid/staple rayon yarns on the corners and polyacrylic yarns for friction faces, each single yarn being impregnated with PTFE using our exclusive «Filcoat»-process, then re-impregnated with a mix of paraffin lubricants and gelling agents during braiding operation.

#### TYPES OF INDUSTRIES





#### **FLUIDS**

Item	Dimensions	Description
36011	□ 6 mm	20 m / 1,11 Kg
36616*	□ 6,35 mm	20 m / 1,24 Kg
34954	□ 8 mm	15 m / 1,21 Kg
36012*	□ 9,5 mm	15 m / 1,35 Kg
34955	□10 mm	12 m / 1,61 Kg
34956	□12 mm	11 m / 2,11 Kg
34957	□12,7 mm	11 m / 2,38 Kg
36013	□14 mm	10 m / 2,65 Kg
36014	□16 mm	10 m / 3,51 Kg
36617	□18 mm	10 m / 4,20 Kg
36015	□19 mm	10 m / 4,80 Kg
36618	□ 20 mm	10 m / 5,00 Kg
36620	□ 25,4 mm	10 m / 8,20 Kg

# **LATTYFLON 4788**

Aramid packing: the first one and still n°1!

#### **OUTSTANDING RESISTANCE WITH ABRASIVE FLUIDS**

- LATTY-EXCLUSIVE «FILCOAT»-PROCESS
- UNMATCHED MECHANICAL RESISTANCE
- SILICONE-FREE PACKING







### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 200 bar

Temperature: -200 °C to 300°C

Speed: < 25 m/s pH: 2 - 13

#### **COMPOSITION**

Packing made of continuous 100% aramid fibres, each single yarn being impregnated with PTFE using our exclusive «Filcoat»-process, then re-impregnated with a mix of PTFE and inert food-quality lubricant during braiding operation.

#### TYPES OF INDUSTRIES









#### **FLUIDS**

Slurries fluids



Item	Dimensions	Description
00100276	□ 5 mm	25 m / 0,85 Kg
00100277	□ 6 mm	20 m / 1,00 Kg
00101153*	□ 6,35 mm	20 m / 1,12 Kg
00100278*	□7 mm	20 m / 1,02 Kg
00100279	□ 8 mm	15 m / 1,33 Kg
00100280	□ 9,5 mm	12 m / 1,55 Kg
00100281	□10 mm	12 m / 1,70 Kg
00100282*	□11 mm	12 m / 1,85 Kg
00100283	□12 mm	11 m / 2,20 Kg
00100284	□12,7 mm	11 m / 2,45 Kg
00100285	□14 mm	10 m / 2,75 Kg
00100286	□15 mm	10 m / 3,20 Kg
00100287	□16 mm	10 m / 3,62 Kg
00100288	□18 mm	10 m / 4,44 Kg
00100289	□19 mm	10 m / 4,94 Kg
00100290	□20 mm	10 m / 5,47 Kg
00100291	□ 22 mm	10 m / 6,66 Kg
00100292	□ 25,4 mm	10 m / 9,00 Kg

# LATTYFLON 4789

the high-performance aramid packing

#### **ARAMID PACKING, GOOD MECHANICAL PROPERTIES**

- LUBRICATED FRICTION, SILICONE-FREE PACKING
- GOOD RESISTANCE WITH ABRASIVE FLUIDS
- EASY CUTTING, REQUIRES LITTLE RETIGHTENING
- LATTY-EXCLUSIVE «FILCOAT»-PROCESS







# OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar

Temperature : -200  $^{\circ}$ C to 275 $^{\circ}$ C

Speed: < 20 m/s pH: 2 - 12

#### COMPOSITION

Packing made of aramid/staple rayon compound yarns, each single yarn being impregnated with PTFE using our exclusive «Filcoat»-process, then re-impregnated with a mix of PTFE and inert food-quality lubricant during braiding operation.

#### TYPES OF INDUSTRIES











#### **FLUIDS**

Slurries fluids



Item	Dimensions	Description
00100209*	□3 mm	35 m / 0,84 Kg
00100210	□4 mm	55 m / 0,73 Kg
00100211	□ 5 mm	25 m / 0,85 Kg
00100212	□6 mm	20 m / 0,97 Kg
00101103*	□ 6,35 mm	20 m /1,08 Kg
00100213	□8 mm	15 m / 1,22 Kg
00100214	□ 9,5 mm	12 m / 1,32 Kg
00100215	□10 mm	12 m / 1,54 Kg
00100216	□ 11 mm	11 m / 1,69 Kg
00100217	□12 mm	11 m / 2,06 Kg
00100218	□ 12,7 mm	11 m / 2,23 Kg
00100219	□14 mm	10 m / 2,52 Kg
00100220	□ 15 mm	10 m / 2,86 Kg
00100221	□16 mm	10 m / 3,33 Kg
00100222	□18 mm	10 m / 4,30 Kg
00100223	□19 mm	10 m / 4,80 Kg
00100224	□ 20 mm	10 m / 5,00 Kg
00100225	□ 22 mm	10 m / 6,10 Kg
00100227	□ 25,4 mm	10 m / 8,02 Kg
00101211	□ 26 mm	10 m / 8,35 Kg
00100229	□ 30 mm	10 m / 11,3 Kg
00100968	□32 mm	10 m / 12,73 Kg

# LATTYFLON 5790

Dynamic sealing: packing for Food Industry (EC 1935/2004)

#### **GOOD WEAR RESISTANCE**

- GENTLE ON SLEEVE OR SHAFT AS A RESULT OF THE SYNTHETIC YARNS OF THE PACKING
- IMPREGNATED WITH SILICONE-FREE LUBRICANT
- PACKING FOR HIGH-SPEED APPLICATIONS
- LATTY-EXCLUSIVE «FILCOAT»-PROCESS







## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar Temperature: -50 °C to 260 °C

Speed: < 20 m/s pH: 2 - 13

#### COMPOSITION

Outstanding resistance to wear in rotation. Very high mechanical resistance, whilst being less abrasive. The yarns are impregnated with silicone-free lubricant to the core prior to braiding using our patented «FILCOAT» process. Specific lubricant with outstanding sliding properties. Enhances abrasion resistance. The low friction coefficient ensures significant energy savings.

#### TYPES OF INDUSTRIES







#### **FLUIDS**

Slurries fluids

GUIDELINES, STANDARDS AND APPROVALS (ON REQUEST)



Item	Dimensions	Description
80361	□ 6 mm	12 m / 0,69 Kg
80362	□ 8 mm	12 m / 1,15 Kg
80363	□10 mm	9 m / 1,35 Kg
80364	□12 mm	9 m / 1,94 Kg
80365	□12,7 mm	9 m / 2,18 Kg
80366	□ 14 mm	6 m / 1,76 Kg
80367	□16 mm	6 m / 2,3 Kg
80369	□ 20 mm	6 m / 3,6 Kg
900001145*	□18 mm	6 m / 2,6 Kg
900002860*	□ 22 mm	6 m / 3,9 Kg
900002861*	□ 25,4 mm	6 m / 5,2 Kg

# LATTYFLON 5790 S

Packing for Food Industry (EC 1935/2004)

#### PACKING FOR FOOD INDUSTRY (EC 1935/2004)

- DRY PACKING WITHOUT IMPREGNATION DURING BRAIDING OPERATION
- PACKING FOR MIXERS, CONVEYORS, ETC.
- IMPREGNATED WITH SILICONE-FREE LUBRICANT
- LATTY-EXCLUSIVE «FILCOAT»-PROCESS







## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar Temperature: -50 °C to 260°C

Speed: < 20 m/s pH: 2 - 13

#### **COMPOSITION**

Outstanding resistance to wear in rotation. Very high mechanical resistance, whilst being less abrasive. The yarns are impregnated with silicone-free lubricant to the core prior to braiding using our patented «FILCOAT» process. Specific lubricant with outstanding sliding properties. Enhances abrasion resistance. The low friction coefficient ensures significant energy savings.

#### TYPES OF INDUSTRIES







#### **FLUIDS**

Slurries fluids

GUIDELINES, STANDARDS AND APPROVALS (ON REQUEST)



# LATTYFLON 3206

Chemically inert packing for dynamic applications

#### **CHEMICAL INERTNESS OF PTFE FOR DYNAMIC APPLICATIONS**

- VERY LOW FRICTION COEFFICIENT
- PERFECT CHEMICAL INERTNESS







## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar

Temperature: -200 °C to 280°C

Speed: < 10 m/s pH: 0 - 14

#### COMPOSITION

Packing made of 100% PTFE silk yarns and inert lubricant.

#### TYPES OF INDUSTRIES





#### **FLUIDS**

Chemically aggressive fluids

Item	Dimensions	Description
00100164	□ 4 mm	35 m / 1,07 Kg
00100166	□6 mm	20 m / 1,36 Kg
00101349*	□ 6,35 mm	20 m / 1,53 Kg
00100168	□8 mm	15 m / 1,65 Kg
00100169	□ 9,5 mm	12 m / 1,86 Kg
00100170	□10 mm	12 m / 2,09 Kg
00100172	□12 mm	11 m / 2,70 Kg
00100173	□12,7 mm	11 m / 3,00 Kg
00100174	□ 14 mm	10 m / 3,50 Kg
00100696	□16 mm	10 m / 4,53 Kg
00100699	□ 20 mm	10 m / 6,70 Kg

# LATTYFLON 3206 S

Chemically inert packing for static applications

#### **CHEMICAL INERTNESS OF PTFE IN STATIC APPLICATION.**

- VERY LOW FRICTION COEFFICIENT
- PERFECT CHEMICAL INERTNESS
- DRY PACKING











## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 300 bar

Temperature: -200 °C to 300°C

Speed: < 5 m/s pH: 0 - 14

#### COMPOSITION

Packing made of 100% PTFE silk yarns, dry packing.

#### TYPES OF INDUSTRIES





#### **FLUIDS**

Chemically aggressive fluids

Item	Dimensions	Description
00100250	□ 4 mm	35 m / 1,02 Kg
00100251	□ 5 mm	25 m / 1,04 Kg
00100252	□6 mm	20 m / 1,21 Kg
00101104*	□ 6,35 mm	20 m / 1,36 Kg
00100254	□ 8 mm	15 m / 1,55 Kg
00100255	□ 9,5 mm	12 m / 1,74 Kg
00100256	□10 mm	12 m / 1,94 Kg
00100258	□12 mm	11 m / 2,51 Kg
00100259	□12,7 mm	11 m / 2,80 Kg
00100260	□14 mm	10 m / 3,20 Kg
00100262	□16 mm	10 m / 4,32 Kg
00100702	□ 20 mm	10 m / 6,59 Kg
00100703*	□ 22 mm	10 m / 7,8 Kg
00100704*	□ 25,4 mm	10 m / 10 Kg

# LATTYFLON 3206 SO

Oxygen-compatible packing

#### PRODUCTS DEDICATED TO OXYGEN-TYPE APPLICATIONS.

- VERY LOW FRICTION COEFFICIENT
- PERFECT CHEMICAL INERTNESS











#### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 300 bar

Temperature: -200 °C to 300°C

**Speed**: < 5 m/s pH:0-14

#### **COMPOSITION**

Packing made of 100% PTFE silk yarns, each single yarn being impregnated with PTFE, then treated to ensure perfect oxygen compatibility.

#### TYPES OF INDUSTRIES









#### **FLUIDS**

All types of fluids, except abrasive fluids







Item	Dimensions	Description
31449	□ 5 mm	25 m / 0,95 Kg
31353	□6 mm	20 m / 1,06 Kg
31414	□8 mm	15 m / 1,45 Kg
33275	□10 mm	12 m / 1,72 Kg
33276	□12 mm	11 m / 2,30 Kg
33277	□ 14 mm	10 m / 3,00 Kg
31584	□16 mm	10 m / 4,00 Kg
30484*	□18 mm	10 m / 5,00 Kg
30568	□19 mm	10 m / 5,10 Kg
31667	□ 20 mm	10 m / 5,60 Kg

# LATTYFLON 3206 AL

PTFE packing

#### FOOD COMPATIBILITY IN DYNAMIC APPLICATIONS, WITH CHEMICAL INERTNESS OF PTFE.

- VERY LOW FRICTION COEFFICIENT
- EASY STEM OPERATION







## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar

Temperature: -200 °C to 280°C Speed: < 10 m/s

pH:0-14

#### **COMPOSITION**

Packing made of 100% PTFE silk yarns and lubricant with food-grade siliron

#### TYPES OF INDUSTRIES









#### **FLUIDS**

Chemically aggressive fluids





Item	Dimensions	Description
33746	□ 5 mm	25 m / 1,00 Kg
33747	□6 mm	20 m / 1,28 Kg
37194*	□ 6,35 mm	20 m / 1,14 Kg
33748	□8 mm	15 m / 1,56 Kg
33749	□10 mm	12 m / 1,86 Kg
33750	□12 mm	11 m / 2,48 Kg
33752	□14 mm	10 m / 3,25 Kg
33753	□16 mm	10 m / 4,10 Kg
33754*	□18 mm	10 m / 5,30 Kg
33755	□19 mm	10 m / 6,20 Kg
33756	□ 20 mm	10 m / 6,40 Kg

# LATTYFLON 3206 CE

Packing for Food Industry (EC 1935/2004)

#### **FOOD COMPATIBILITY IN DYNAMIC APPLICATIONS**

- VERY LOW FRICTION COEFFICIENT
- PERFECT CHEMICAL INERTNESS







### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar

Temperature : -200  $^{\circ}$ C to 280 $^{\circ}$ C

Speed: < 10 m/s pH: 0 - 14

#### **COMPOSITION**

Packing made of 100% PTFE silk yarns, each single yarn being impregnated with PTFE using our exclusive «Filcoat»-process, then re-impregnated with a mix of PTFE and food-grade lubricant during braiding operation.

#### TYPES OF INDUSTRIES









#### **FLUIDS**

All types of fluids



# LATTYFLON 3207

Packing suitable for aggressive environments in dynamic sealing

#### FOR CHEMICALLY AGGRESSIVE FLUIDS

- GRAPHITED PTFE PACKING
- DEDICATED TO APPLICATIONS ON ROTARY PUMPS





#### **OPERATING PARAMETERS** (NOT ASSOCIATED)

Pressure: 0 to 80 bar

Temperature: -200 °C to 250°C

Speed: < 20 m/s pH:0-14

#### **COMPOSITION**

Packing made of 100% PTFE silk yarns, pre-treated with continuous graphite impregnation to the core, then re-impregnated with a silicon lubricant.

#### TYPES OF INDUSTRIES



#### **FLUIDS**

All types of fluids, except abrasive fluids

Item	Dimensions	Description
42957	□ 6 mm	20 m / 1,16 Kg
42959	□8 mm	15 m / 1,47 Kg
42960	□ 9,5 mm	12 m / 1,76 Kg
42961	□10 mm	12 m / 1,89 Kg
55981	□11 mm	11 m / 1,98 Kg
42962	□12 mm	11 m / 2,47 Kg
42963	□12,7 mm	11 m / 2,80Kg
42964	□14 mm	10 m / 3,2 Kg
55982	□15 mm	10 m / 3,71 Kg
42965	□16 mm	10 m / 4,1 Kg
46924	□18 mm	10 m / 5,25 Kg
45219	□19 mm	10 m / 6,05 Kg
43003	□ 20 mm	10 m / 6,4 Kg
46925	□ 22 mm	10 m / 7,8 Kg
44116	□ 25.4 mm	11 m / 10.9 Kg

# LATTYFLON 4308

Packing for applications on rotary pumps with chemically aggressive fluids

#### VERY LOW FRICTION COEFFICIENT

- GRAPHITED PTFE PACKING, DEDICATED TO APPLICATIONS ON ROTARY PUMPS WITH CHEMICALLY AGGRESSIVE FLUIDS
- OUTSTANDING HEAT TRANSFER COEFFICIENT
- GOOD ELECTRICAL CONDUCTOR, NO BUILD-UP OF STATIC CHARGE





### OPERATING PARAMETERS

Pressure: 0 to 110 bar

Temperature : -200  $^{\circ}$ C to 300 $^{\circ}$ C

Speed: < 26 m/s pH: 0 - 14

#### COMPOSITION

Packing made of 100% PTFE silk yarns, pre-treated with continuous graphite impregnation to the core, then re-impregnated with a silicon lubricant.

#### TYPES OF INDUSTRIES



#### **FLUIDS**

All types of fluids, except abrasive fluids

Item	Dimensions	Description
00101655*	□ 4 mm	35 m / 0,93 Kg
00101626	□ 5 mm	25 m / 1,05 Kg
00101581	□6 mm	20 m / 1,16 Kg
00101663*	□ 6,35 mm	20 m / 1,3 Kg
00101579	□ 8 mm	15 m / 1,47 Kg
00101617	□ 9,5 mm	12 m / 1,76 Kg
00101580	□10 mm	12 m / 1,89 Kg
00101583*	□11 mm	11 m /2,00 Kg
00101582	□12 mm	11 m / 2,47 Kg
00101584	□12,7 mm	11 m / 2,8 Kg
00101652	□14 mm	10 m / 3,2 Kg
00101634	□15 mm	10 m / 3,71 Kg
00101616	□16 mm	10 m / 4,10 Kg
00101685	□18 mm	10 m / 5,25 Kg
00101653	□19 mm	10 m / 6,05 Kg
00101654	□ 20 mm	10 m / 6,40 Kg
00101635	□ 22 mm	10 m / 7,80 Kg
00101632	□ 25,4 mm	10 m / 10 Kg

#### **TECHNICAL TRAINING**

### TRAINING (See page 202)



AIM: Understand the different leak occurrences in:

#### Seals for **rotary units**:

- mechanical seals and packings
- for the dynamic sealing
- of pumps or stirring processes.





Synthetic packing

# LATTYTEX 2761

**Graphited** packing

#### **LOW-PRESSURE APPLICATIONS**

- FOR ROTARY UNITS AND INDUSTRIAL VALVES AND FITTINGS
- LATTY-EXCLUSIVE «FILCOAT»-PROCESS









### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar Temperature: -50 °C to 260°C

Speed: < 15 m/s pH:1-13

#### **COMPOSITION**

Packing made of special polyacrylic yarns, each single yarn being impregnated with PTFE using our exclusive «Filcoat»-process, then re-impregnated during braiding operation in a bath consisting of graphite mixed with special lubricants.

#### TYPES OF INDUSTRIES



#### **FLUIDS**

Moderately aggressive fluids

Item	Dimensions	Description
00101758	□ 4 mm	47 m / 1,17 Kg
00101759	□ 5 mm	35 m / 1,29 Kg
00101760	□6 mm	30 m / 1,47 Kg
00101762	□8 mm	15 m / 1,30 Kg
00101763	□ 9,5 mm	12 m / 1,50 Kg
00101764	□10 mm	12 m / 1,65 Kg
00101765	□11 mm	11 m / 1,70 Kg
00101766	□12 mm	11 m / 2,21 Kg
00101767	□12,7 mm	11 m / 2,51 Kg
00101768	□14 mm	10 m / 2,60 Kg
00101769	□15 mm	10 m / 2,90 Kg
00101770	□16 mm	10 m / 3,45 Kg
00101771	□18 mm	10 m / 4,34 Kg
00101772	□19 mm	10 m / 4,58 Kg
00101773	□ 20 mm	10 m / 5,37 Kg
00101774	□ 22 mm	10 m / 6,10 Kg
00101775	□ 25,4 mm	10 m / 8,20 Kg
00101778*	□30 mm	10 m / 11,77 Kg

#### **TOOLS AND ACCESSORIES**

FLEXIBLE AND RIGID PACKING EXTRACTORS (See page 213)

These extractors are designed to remove packing rings with cross-sections from 4 to 25 mm that are in use in valve glands, pumps, stirrers, mixers, etc. The size and robustness of LATTY international extractors enable quick removal of even the most inaccessible packing rings.

Set of 2 extractors with the same dimension

Types LI: FF4, FF16, FF20, FF25, RF16, RF20) • Set of 2 extractors with the same dimension + 5 spare ends

Types LI: FD6, FD10, FD14, RD6, RD10, RD14. • Set of 10 extractors with the same dimension

Types LI: E6, E10, E14











Synthetic packing

# LATTYFLON 2790 AL

Packing for drinking water for dynamic sealing

#### PACKING FOR DRINKING WATER FOR DYNAMIC SEALING

- LATTY-EXCLUSIVE «FILCOAT»-PROCESS
- LIMITATIONS WITH ACIDS AND STRONG BASES







### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar Temperature: -50 °C to 260°C

Speed: < 15 m/s pH:1-13

#### **COMPOSITION**

Packing made of special polyacrylic yarns, each single yarn being impregnated with PTFE using our exclusive «Filcoat»-process, then re-impregnated during braiding operation with a mix of PTFE and food-grade silicon lubricant.

#### TYPES OF INDUSTRIES







#### **FLUIDS**

All types of fluids



Item	Dimensions	Description
63520*	□ 4 mm	35 m / 0,84Kg
63521*	□ 5 mm	25 m /0,81 Kg
37964	□ 6 mm	20 m / 0,96 Kg
34259*	□ 6,35 mm	20 m / 1,05 Kg
34260	□ 8 mm	15 m / 1,25 Kg
36959	□ 9,5 mm	12 m / 1,44 Kg
34261	□10 mm	12 m / 1,56 Kg
34262	□11 mm	11 m / 1,72 Kg
34263	□12 mm	11 m / 2,10 Kg
34264	□12,7 mm	11 m / 2,32 Kg
40845	□14 mm	10 m / 2,53 Kg
34265	□16 mm	10 m / 3,30 Kg
37729	□19 mm	10 m / 4,60 Kg
40847	□ 20 mm	10 m / 5,20 Kg

# LATTYFLON 2790

Packing for Food Industry (EC 1935/2004) in dynamic sealing

#### PACKING FOR FOOD INDUSTRY (EC 1935/2004)

- FOR ROTARY UNITS
- LATTY-EXCLUSIVE «FILCOAT»-PROCESS







## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 100 bar Temperature: -50 °C to 260°C

Speed: < 15 m/s pH:1-13

#### **COMPOSITION**

Packing made of special polyacrylic yarns, each single yarn being impregnated with PTFE using our exclusive Filcoat-process, then reimpregnated during braiding operation with a mix of PTFE and inert lubricant.

#### TYPES OF INDUSTRIES





#### **FLUIDS**

All types of fluids

GUIDELINES, STANDARDS AND APPROVALS (ON REQUEST)



Item	Dimensions	Description
00101431	□ 6 mm	20 m / 0,99 Kg
00101458*	□ 6,35 mm	20 m / 1,11 Kg
00101430	□ 8 mm	15 m / 1,35 Kg
00101422	□ 9,5 mm	12 m / 1,50 Kg
00101435	□10 mm	12 m / 1,73 Kg
00101440	□11 mm	11 m / 1,92 Kg
00101423	□12 mm	11 m / 2,25 Kg
00101410	□12,7 mm	11 m / 2,53 Kg
00101424	□ 14 mm	10 m / 2,80 Kg
00101433	□16 mm	10 m / 3,60 Kg
00101442	□19 mm	10 m / 4,70 Kg
00101434	□ 20 mm	10 m / 5,20 Kg
00101443	□ 22 mm	10 m / 6,13 Kg
00101444	□ 25,4 mm	10 m / 8,06 Kg

Synthetic packing

# LATTYFLON 7188

Packing made of compound yarn, impregnated with a mix of PTFE and inert lubricant for dynamic sealing

#### **HIGH-PERFORMANCE SYNTHETIC PACKING FOR SLURRIES**

- REDUCED RUNNING-IN TIME. SILICONE-FREE LUBRICANT
- REDUCED RETIGHTENING OPERATIONS
- PACKING SOLD ONLY BY THE METRE OR PREFORMED LENGTH





#### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 200 bar

Temperature: -200 °C to 300°C

**Speed**: < 20 m/s pH:1-13

#### COMPOSITION

Packing made of phenolic compound yarns impregnated during braiding operation with a mix of PTFE and inert lubricant. Very good mechanical characteristics combining both suppleness and robustness.

#### TYPES OF INDUSTRIES







#### **FLUIDS**

All industries using abrasive fluids, slurries.

Item	Dimensions	Description
00101727	□ 6 mm	20 m / 1,10 Kg
25735*	□ 6,35 mm	20 m / 1,23 Kg
00101728	□ 8 mm	15 m / 1,43 Kg
00101729	□ 9,5 mm	12 m / 1,62 Kg
00101730	□10 mm	12 m / 1,72 Kg
25622*	□11 mm	11 m / 2,04Kg
00101731	□12 mm	11 m / 2,40 Kg
00101732	□12,7 mm	11 m / 2,62 Kg
22222	□14 mm	10 m / 2,92 Kg
00101734	□16 mm	10 m / 3,92 Kg
00101742*	□18 mm	10 m / 4,75 Kg
00101735*	□19 mm	10 m / 5,12 Kg
00101736	□ 20 mm	10 m / 5,79 Kg
00101737*	□ 22 mm	10 m / 6,87 Kg
22223*	□ 25,4 mm	10 m / 8,68 Kg

### Synthetic packing

# LATTYFLON 7189

Packing specially dedicated to slurries

#### FLEXIBLE, ROBUST PACKING WITH EXCELLENT ELASTIC RECOVERY PROPERTIES

- LITTLE RETIGHTENING REQUIRED AFTER INSTALLATION EASY CUTTING, LOW HEAT
- CAN BE USED WITHOUT A LANTERN RING
- PACKING SOLD ONLY BY THE METRE OR PREFORMED LENGTH





# OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure : 0 to 200 bar Temperature : 0 °C to 260°C

Speed: < 20 m/s pH:1-13

#### COMPOSITION

Made on the edges of phenolic composite yarns, each single yarn being impregnated with PTFE using our exclusive Filcoat-process, and of polyacrylic yarns on friction faces.

#### TYPES OF INDUSTRIES







#### **FLUIDS**

Item	Dimensions	Description
900015133	□6 mm	10 m / 0,89 Kg
900013745	□8 mm	15 m / 1,4 Kg
900015447	□ 9,5 mm	10 m / 1,0 Kg
900013746	□10 mm	12 m / 1,8 Kg
900013643	□ 12 mm	10 m / 1,7 Kg
900013747	□12,7 mm	11 m / 2,0Kg
900013728	□ 14 mm	10 m / 2,3 Kg
900013552	□16 mm	10 m / 2,9 Kg
900015448	□18 mm	10 m / 3,7 Kg
900013560	□19 mm	10 m / 4,2 Kg
900014501	□ 20 mm	10 m / 4,6 Kg
900017539	□ 22 mm	10 m / 6,3 Kg
900013642	□ 25,4 mm	10 m / 7,4 Kg

Carbon graphite packing

# **LATTYGRAF T**

The packing for extreme conditions: pressure - speed - temperature - ph for dynamic sealing

#### **HIGH SPEEDS, HIGH TEMPERATURES, CLEAN FLUIDS**

- SUITABLE FOR ALL CHEMICAL FLUIDS (EXCEPT OXIDANTS)
- OUTSTANDING ELASTIC RECOVERY







### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 300 bar

Temperature: -200 °C to 600°C Speed: < 35 m/s

pH: 0 - 14

#### **COMPOSITION**

Packing made of 100% pure graphite continuous yarns, impregnated with a graphite mix. Very low friction coefficient, good heat dissipation, outstanding elastic recovery.

#### TYPES OF INDUSTRIES











#### **FLUIDS**

All types of non abrasive fluids, except oxidants

Item	Dimensions	Description
00100510	□ 6 mm	20 m / 0,66 Kg
00100512	□ 8 mm	15 m / 0,82 Kg
00100513	□10 mm	12 m / 0,96 Kg
00100514	□11 mm	11 m / 1,10 Kg
00100515	□12 mm	11 m / 1,38 Kg
00100516	□12,7 mm	11 m / 1,60 Kg
00100518	□16 mm	10 m / 2,23 Kg
00100521*	□ 20 mm	10 m / 3,63 Kg

### Carbon graphite packing

# LATTYGRAF TSP

High-elastic and low-friction packing for dynamic sealing

#### HIGH SPEEDS, HIGH TEMPERATURES, CLEAN FLUIDS

- OUTSTANDING ELASTIC RECOVERY
- LOW FRICTION COEFFICIENT







#### OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 300 bar

Temperature: -200 °C to 550°C **Speed**: < 35 m/s

pH:0-14

#### COMPOSITION

Packing made of carbon continuous yarns, impregnated with a graphite mix. Very low friction coefficient, outstanding elastic recovery. Very low friction coefficient, good heat dissipation, outstanding elastic recovery.

#### TYPES OF INDUSTRIES









#### **FLUIDS**

All types of non abrasive fluids, except oxidants

Item	Dimensions	Description
00100593	□6 mm	20 m / 0,60 Kg
00100594	□8 mm	15 m / 0,78 Kg
00100595	□10 mm	12 m / 1,02 Kg
00100596*	□11 mm	11 m / 0,94 Kg
00100597	□12 mm	11 m / 1,32 Kg
00101023	□12,7 mm	11 m / 1,48 Kg
00100599	□16 mm	10 m / 2,05 Kg

Carbon graphite packing

# LATTYGRAF 6745 NG

The new generation of reduced-friction carbon packings for valves and fittings.

#### **HIGH-TEMPERATURE PACKING UP TO 600°C**

- CONTAINS AN INHIBITOR (EXCLUSIVE LATTY PROCESS) TO PROVIDE THE VALVE COMPONENTS GOOD PROTECTION.
- FOR ROTARY UNITS AND INDUSTRIAL VALVES AND FITTINGS







#### **OPERATING PARAMETERS** (NOT ASSOCIATED)

Pressure: 0 to 300 bar

Temperature: 450 °C to 600°C Speed: < 25 m/s

pH:0-14

#### **COMPOSITION**

Packing made from continuous carbon yarns, each yarn being impregnated with PTFE using our patented filcoat process, then reimpregnated during braiding with a graphite-and-PTFE-based mix to ensure optimum performance of pumps and valves. Contains a corrosion inhibitor developed from an exclusive process to provide unlimited protection over time.

#### TYPES OF INDUSTRIES









#### **FLUIDS**

All types of fluids, precautions for use in oxidising environments



Item	Dimensions	Description
900003923	□ 4 mm	35 m / 0,65 Kg
900003924	□ 5 mm	25 m / 0,70 Kg
900003925	□6 mm	20 m / 0,77 Kg
900004250	□ 6,35 mm	20 m / 0,87 Kg
900003926	□ 8 mm	15 m / 1,06 Kg
900003927	□ 9,5 mm	12 m / 1,20 Kg
900003928	□10 mm	12 m / 1,30 Kg
900004251	□11 mm	11 m / 1,44 Kg
900003929	□12 mm	11 m / 1,66 Kg
900003930	□12,7 mm	11 m / 1,81 Kg
900003931	□14 mm	10 m / 2,16 Kg
900003933	□16 mm	10 m / 2,76 Kg
900003934	□19 mm	10 m / 3,78 Kg
900003935	□ 20 mm	10 m / 4,27 Kg
900003936	□ 25,4 mm	10 m / 6,87 Kg



#### **TOOLS AND ACCESSORIES**

#### PACKING-CUTTING TOOLS (see page 214)

These tools have been designed to cut packing rings to the exact length, thus avoiding cutting errors. Ease of use thanks to a cursor with packing sections, a scale of shaft diameters and which allows to directly obtain the exact ring length. The packings cut at 45°, thus joining together, ensure sealing efficiency. The graduations for packing sections and shaft diameters are given in millimetres and in inches. An appropriate knife is provided with the unit.

#### **ADVANTAGES**

- INCREASED RELIABILITY
- DIMENSIONAL REPEATABILITY
- CLEAN CUTS
- REDUCED MAINTENANCE
- PRODUCT SAVINGS
- EASE OF USE
- LIGHT AND ROBUST UNIT









Туре	Shaft (mm)	Packing section	Code
LI200	up to 110	< 20 mm	49 06 00 26
LI 201	up to 300	< 30 mm	49 06 00 27
knife			25 49 06 00 25



Vegetable packing

# **LATTYTEX 14**

Packing for cold water for dynamic sealing

#### **PACKING FOR COLD WATER FOR DYNAMIC SEALING**

• WATER APPLICATIONS UP TO 60°C







## OPERATING PARAMETERS (NOT ASSOCIATED)

Pressure: 0 to 10 bar Temperature: -40 °C to 60°C

Speed: < 6 m/s

pH:5-9

#### **COMPOSITION**

Braided packing made of cotton yarns, impregnated with a  $\min$  of tallow and  $\min$ a.

#### TYPES OF INDUSTRIES





#### **FLUIDS**

All types of fluids

Item	Dimensions	Description
00100024	□6 mm	30 m / 1,16 Kg
00100025	□8 mm	15 m / 0,99 Kg
00100026	□10 mm	12 m / 1,30 Kg
00100027	□12 mm	11 m / 1,61 Kg
37635*	□12,7 mm	11 m / 1,93 Kg
00100028	□14 mm	10 m / 2,15 Kg
00100029	□16 mm	10 m / 2,80 Kg
34614*	□19 mm	10 m / 4,00 Kg
00100031	□ 20 mm	10 m / 4,15 Kg
00100032	□ 22 mm	10 m / 4,96 Kg

### Vegetable packing

# **LATTYFLON 1779**

Anti-rot packing

#### **VEGETABLE PACKING FOR ROTARY UNIT APPLICATIONS**

• IMPREGNATED WITH A MIX OF PTFE AND INERT LUBRICANT DURING BRAIDING OPERATION.







#### **OPERATING PARAMETERS** (NOT ASSOCIATED)

Pressure: 0 to 400 bar Temperature: -40 °C to 120 °C

Speed : < 15 m/s pH: 4 - 11

#### **COMPOSITION**

Packing made of anti-rot high-quality ramie yarns, impregnated with a mix of PTFE and inert lubricant during braiding operation.

#### TYPES OF INDUSTRIES







#### **FLUIDS**

All types of fluids

Item	Dimensions	Description
00100116*	□ 4 mm	35 m / 0,77 Kg
00100118	□6 mm	20 m / 1,00 Kg
33980*	□ 6,35 mm	20 m / 1,12 Kg
00100119	□8 mm	15 m / 1,28 Kg
00100844	□ 9,5 mm	12 m / 1,44 Kg
00100120	□10 mm	12 m / 1,60 Kg
00100122	□12 mm	11 m / 2,07 Kg
00100123	□12,7 mm	11 m / 2,31 Kg
00100124	□14 mm	10 m / 2,55 Kg
00100125	□16 mm	10 m / 3,40 Kg
00100126*	□18 mm	10 m /4,20 Kg
00100127	□ 20 mm	10 m / 5,30 Kg
00100128*	□ 22 mm	10 m / 5,8 Kg

# APPROVALS BY PRODUCTS

	FOOD		POTABLE WATER			OXYGEN		GAS	FUGITIVE EMISSIONS	NUCLEAR	FIRE TESTING	
	FDA	CE 1935 /2004	WRAS	KTW	ACS	BAM GAZ	BAM LIQUIDE	DVGW	TÜV / TA Luft	PMUC	API607	API589
LATTYflon 84 L	Х											
LATTYflon 94 L	Х	Х				Х			Х	Х		
LATTYflon 95	Χ	X										
LATTYflon 97	Χ								Х			
LATTYflon 2790		Χ*										
LATTYflon 2790 AL			Х									
LATTYflon 3206 AL	Χ				X							
LATTYflon 3206 CE		Х										
LATTYflon 3206 SO	Χ	X				X	Х		Х			
LATTYflon 3260 LM						Х			Х	Х		
LATTYflon 3265 LM						X			X			
LATTYflon 3265 FR										Х		
LATTYflon 4788										Х		
LATTYflon 4789			Х							Х		
LATTYflon 5790		Χ*										
LATTYflon 5790 S		Χ*										
LATTYflon UNISEAL	Х					X						
LATTYcarb 96			Х	Х		X		Х	Х			
LATTYgold 92			Х	X		X		Х	X	Х		
LATTYgold 925										Х		
LATTYgold 92 G2F										Х		
LATTYgraf 6940						X	Х				Х	
LATTYgraf 6940 EF						X	Х		X			Х
LATTYgraf 6995 NG						X	Х					
LATTYgraf 8945 BS										X		
LATTYgraf E						X	Х					
LATTYgraf EBST										Х		
LATTYgraf EF/EF4						X	Х					
LATTYgraf EF NG						X	X		X			
LATTYgraf EFA			X			Х						
LATTYgraf EFA BS										Х		
LATTYgraf EFMC@											X	X
LATTYgraf REFLEX										Х		
LATTYflex						X	X					

<sup>\*</sup> Incidental food contact

