

# Lionpak®

## 2503

PTFE/graphite/aramid for highly abrasive chemical media

**Lionpak® 2503 is a combination packing, with tough but smooth aramid fibre yarn at the corners, ePTFE/graphite solid yarn with a break-in lubricant at the faces, and a solid core of extruded elastomeric cord.**

The aramid yarn is impregnated with an antifriction fluoropolymer dispersion and a special break-in lubricant.

#### Prime features

- Exceedingly durable packing, with inherent dimensional stability, that offers high integrity sealing throughout its long operational life.
- PTFE/graphite running faces provide excellent heat dissipation with cool running.
- Aramid yarn at its corners helps to withstand the rigours of reciprocating plunger pump operation.
- The high density elastomeric core provides resilience and resistance to high working pressures, and can absorb the vibration and eccentric movement created by worn running surfaces.

#### Typical applications

Pumps, valves, reactors, autoclaves, mixers, agitators, refiners, pistons, hydraulic presses and hammers. It can also be used as a replacement for traditional lip seals in certain applications.

Recommended for duties with ammonia and carbamate solutions. Also suitable for use with oxidising and non-oxidising liquids and gases, fine chemical slurries, hydrazine, trisodium phosphate, sodium hexametaphosphate, black and green liquor, paper pulp, pulp diluted with water, water slurries, acids, alkalis and molasses.

#### Chemical properties

Compatible with media in the range pH 1-13.

#### How supplied

All popular square sections from 6.5 mm to 25 mm (¼" to 1") in boxes containing 8 m (26' 3"), in coil form or on spools as detailed in the table below. Also supplied as split preformed rings and sets.

Spool ordering information			
Size		Packaged ± 10%	
mm	inch	kg	lbs
6.5	¼	0.9	2
8.0	5/16	0.9	2
10.0	-	2.3	5
11.0	7/16	2.3	5
12.5	½	2.3	5
14.0	9/16	2.3	5
16.0	5/8	4.5	10
20.0	13/16	4.5	10
22.0	7/8	4.5	10
25.0	1	4.5	10



#### VALVE STEM DUTIES

**Maximum Operating Temperature:**

+250°C (+482°F)

**Minimum Operating Temperature:**

-50°C (-58°F)

**Maximum System Pressure:**

25 MPa/250 bar (3626 psi)



#### CENTRIFUGAL PUMPS AND ROTARY EQUIPMENT

**Maximum Operating Temperature:**

+250°C (+482°F)

**Minimum Operating Temperature:**

-50°C (-58°F)

**Maximum Shaft Speed:**

20 m/s (3937 fpm)

**Maximum System Pressure:**

2 MPa/25 bar (363 psi)



#### RECIPROCATING PUMPS AND RAMS

**Maximum Operating Temperature:**

+250°C (+482°F)

**Minimum Operating Temperature:**

-50°C (-58°F)

**Maximum Rod Speed:**

2.0 m/s (394 fpm)

**Maximum System Pressure:**

10 MPa/100 bar (1450 psi)