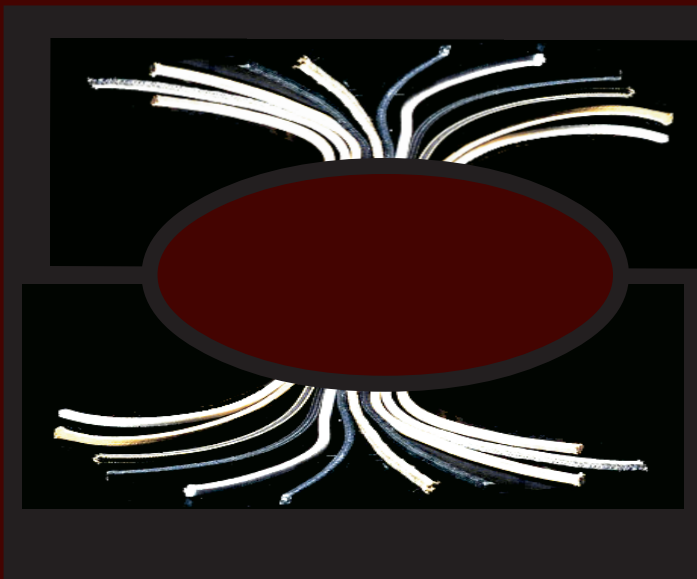
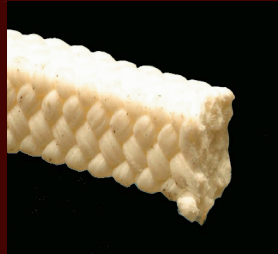


Compression Packing



PRIMO ENERGY INTERNATIONAL, INC.

Office: 713.936.2070

www.primoenergyintl.com

Distributor

RCP 1900



DESCRIPTION

RCP 1900 is constructed from pure expanded mineral graphite twisted yarn with multiple inconel wires reinforced in each yarn. Braided inner core of multiple wires reinforced provides outstanding sealing performance and high-pressure resistance. External jacket braided from pure expanded mineral graphite non-metallic twisted yarn, treated with inhibitor and blocking agents, avoids all contacts between reinforced inner core and the valve stem. **No stem wear.**

SERVICE

RCP 1900 is designed for service in petrochemical plants, pulp and paper mills, and other hostile environments where effective sealing is vital.

TECHNICAL DATA

Purity of Graphite Content	99%	Breaking Strength	> 10 MPa
Temperature Limits	-392° F (-200° C) +6000° F (3300° C) non-oxidizing atm. +932° F (500° C) oxidizing atm. +1202° F (650° C) Steam	Total Sulphur Content	700 ppm
Pressure Limits	Up to 500 bar	Total Chloride Content	30 ppm
Chemical Resistance	PH 0-14 except oleum, fuming nitric acid, aqua regia and fluorine	Total Fluoride Content	10 ppm
		Total Metal Content	<500 ppm
		Ignition Loss	<10% (at450° C burning to 3 hrs.)
		Corrosion Inhibitor	5% by volume
Co-efficient of Friction	0.149		
Carbon Ash Content	<0.5%		
Inconel Wire Reinforce			
Density	1.1 - 1.4 g/cm ³		

COLOR **Black**

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	-----	-----	23	16.10	9.20	5.85	5.10	4.20	3.20	2.80	1.90	1.50	1.22	1.01

Size	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb	-----	-----	18.8	12.5	8.9	6.5	5	4.1	3.3	2.3	1.7	1.3

RCP 4490



DESCRIPTION

RCP 4490 - The ultimate packing for valve sealing, with zero leakage and compatible with virtually all liquids. The packing is manufactured from high purity flexible graphite yarn. Each yarn is reinforced with multiple Inconel® wire jacket mesh. During manufacturing corrosion inhibitor is incorporated into the packing to eliminate galvanic corrosion. RCP 4490 will not harden in use and can be easily removed.

Construction:	Interbraid
Temperature:	-240°C to 450°C in oxidizing atmosphere
Steam:	650°C
Insert Gas:	3000°C
Pressure:	600 BAR
PH Range:	0-14 (except strong oxidizers)

Application:

Excellent for use in steam turbines, high temperature motor-actuated valves.

Yield in Meters / KG

4	5	6	8	10	12	14	16	18	20	22	25
35	24	17	10	6.5	4.50	3.6	3	2.4	2	1.7	1.3

RCP 141



DESCRIPTION

RCP 141 is a special high temperature Carbon yarn with Inconel wire, braided over a flexible resilient non-asbestos core. The Carbon yarn encapsulates the Inconel wire to stop stem wear. The packing is thoroughly impregnated with graphite and treated with a sacrificial material to stop electrolytic reaction.

Service

Recommended for high-temperature high-pressure valve application.

Temperature
Max. Pressure
PH

650°C (1200°F)
270 BAR (3900 PSI)
1-12

Ordering Information

Size mm	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	68	38	25.10	17.10	9.60	6.00	5.05	4.30	3.10	2.40	1.90	1.60	1.50	0.98

Size In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb.	75	39	25	12.6	9.4	7.1	6	4.4	3.8	2.6	1.5	0.94

RCP 110G-2



DESCRIPTION

Braided from a combination of expanded flexible graphite and inconel wire. RCP 110-G2 retains dimensional stability in high temperature, high pressure environments. During manufacturing a corrosion inhibitor is incorporated into the packing.

COLOR

Black

SPECIFICATIONS

Temperature:

-190°C (-315°F) to 650°C (1200°F) in steam

-190°C (-315°F) to 450°C (860°F) in oxidizing atmosphere

-190°C (-315°F) to 3000°C (5700°F) in non oxidizing atmosphere

pH Range

0 to 14 except strong oxidizers

Pressure

300 bar (4350 PSI)

Construction

Interlock Braid

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	98	52	36	24.00	12.90	8.85	7.20	6.30	5.01	4.05	3.10	2.50	1.90	1.48

Size	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb	106	48	33	20	12	10	7	6.4	5	3.3	2.6	2

RCP 110G-1



RasTech RCP 110 G-1 is braided from pure expanded mineral graphite twisted yarn with exceptionally low carbon content. This results in long-lasting packing, featuring a low coefficient of friction, excellent heat transfer properties and exceptional chemical resistance.

Always the best solution

To Control:

- Excessive leakage
- High surface speeds
- Chemically aggressive fluids
- High temperature fluids
- Abnormal scoring on shafts
- Frequent packing replacement

Superior benefits such as:

- Resilient, flexible and compactable
- Self-lubricating, and no cold flow
- No deterioration due to age
- Can be modified into endless ring
- High purity of graphite content
- Expandable and fire safe
- Reduces product loses, no leak
- Reduces power consumption

Technical Data

Purity of Graphite Content	99%	Breaking strength	> 10 MPa
	- 392°F (-200°C) Cryogenics	Total Sulphur content	700 ppm
	+ 6000°F (3300°C) non-oxidizing atm.	Total Chloride content	30 ppm
Temperature Limits	+ 932°F (500°C) oxidizing atm.	Total Fluoride content	10 ppm
	+ 1202°F (650°C) steam		
Pressure Limits	Pumps Max. 500 PSI (35 BAR)	Ignition Loss	< 10% (at 450° C burning to 3 hrs.)
	Valves Max. 3000 PSI (207 BAR)		
	PH 0-14 except oleum, fuming nitric acid & Aqua regia and fluorine	Corrosion inhibitor	5% by volume
Chemical Resistance			
Shaft Speed	5000 FPM Max. (25 m/s)		
Co-efficient of Friction	0.149		
Carbon Ash Content	<0.5%		

Ordering Information

mm	3	4	5	6	7	8	10	11	12	13	14	15	16	18	19	20	22	24	25
Mtr/kg	90	50	32	23	17	13	8.3	7	5.8	4.9	4.5	4	3.5	2.7	2.5	2.2	1.9	1.7	1.5
Inches	1/8		3/16	1/4		5/16	3/8	7/16	1/2		9/16		5/8	11/16	3/4	13/16	7/8	15/16	1
Ft/LB	115		50	30		20	14	10	8.0		6.0		5.0	4.0	3.8	3.4	2.8	2.5	2.2

RCP 350-C



DESCRIPTION

New and unique construction. Reduces shaft wear, seals rotary pumps with virtually no leakage. Requires no flush water in most applications. RCP 350C is manufactured from exfoliated graphite yarn. Each yarn is reinforced with high strength, low friction carbon yarn. The corners are reinforced with carbon yarn, and inorganic inhibitor is added to eliminate electrolytic reaction. It is self-lubricating and minimizes shaft wear.

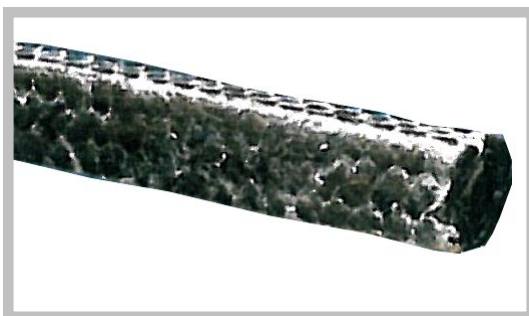
Technical Data

Temperature:	650°C Steam 450°C Oxidizing atmosphere
Pressure Limit:	275 BAR (4000 PSI) valves
Shaft Speed:	20 M/S
Pressure:	600 BAR
Chemical Resistant:	
PH:	0-14 Except in strong oxidizers

Service:

Boiler feed pumps. paper mills, condensate, black liquor, white and green liquor, waste water treatment plants, agitators, mixes and valves.

RCP 250-2



DESCRIPTION

A strong carbon yarn but pliable which is thoroughly impregnated throughout with PTFE to give a non-contaminating, non-staining carbon packing.

SERVICE

For use in severe services handling chemicals, solvents and acids, ideal packing for Paper Mill applications.

Not to be used in strong oxidizers.

SERVICE LIMITS

Temperature: 343°C (650°F) in oxidizing atmosphere/ to 650°C (1200°F) non-oxidizing atmosphere.

pH range

0-14

Max. Pressure

35 BAR (508 PSI)

Shaft Speed

22.8 m / s, 4500 FPM

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	70.10	39.15	24.10	17.60	10.20	6.30	5.50	4.10	3.40	2.70	1.95	1.60	1.45	1.20

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb	78.1	32	19.5	13	9.4	7.1	5.6	4.4	3.7	2.7	1.9	1.5

RCP 200 CG



DESCRIPTION

RCP 200CG is a tough yet pliable continuous pre-oxidized carbon/graphite filament yarn packing impregnated with graphite particles which fill voids, act as a break-in lubricant, and block leakage, an in-organic corrosion inhibitor is added to avoid electrolytic corrosion in static applications.

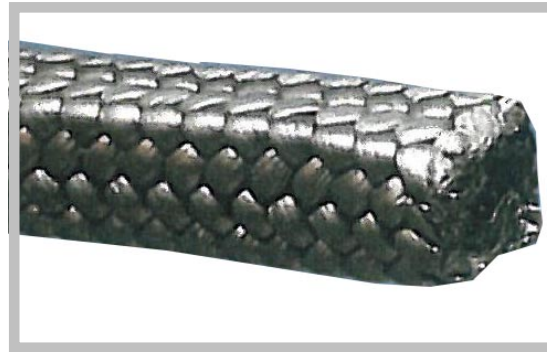
Service:

Handles water, steam, petroleum solvents, boiler feed pump, aqueous solution of acids and alkalies. Use for high speed pumps, blowers, dryers, high temperature and high pressure valves, furnace gasketing.

Service Limits

pH Range	0- 14
Temperature	950°C (Non-oxidizing atmosphere) 454°C (Oxidizing atmosphere)
Pressure Limits:	
Rotating	35 BAR
Reciprocating	200 BAR
Static	300 BAR
Shaft Speed	20/ms

RCP 323



Description

RCP 323 is a high quality gland packing, constructed by x-braiding a special PTFE yarn, which incorporates graphite and high temperature lubricant.

Applications

Centrifugal, Rotary and Reciprocating Pumps □ Air, water, sea water, brines, super heated steam, sludge, slurries, waste, petroleum oils, petroleum fuels, solvents, chemicals, liquefied gas. *Supreme general-purpose pump packing for all industries except food and drink.

Virtually all fluids can be handled with the exception of molten alkali metals and strong oxidizing agents such as oleum, aqua-regia and fuming nitric acid.

COLOR:

Black

PH Range

0 to 14

Max. Temperature

-240°C (-400°F) to 288°C (550°F)

Max. Shaft Speed

22 m/s (4400 FPM)

Max. Pressure

35 MPa (350 bar) (5075 PSI)

Rotating

2 MPa (20 bar) (300 PSI)

Reciprocating

10 MPa (100 bar) (1450 PSI)

Static

35 Mpa (350 bar) (5075 PSI)

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	69.98	39.37	25.19	17.50	9.84	6.30	5.11	4.37	3.21	2.46	1.94	1.57	1.30	1.01

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb	53.3	40	22	13.1	9.5	6.6	5.8	4.2	3.3	2.6	1.9	1.5

RCP 120E



Expanded PTFE with graphite

DESCRIPTION

It is a soft flexible packing constructed by x-braiding pure PTFE with graphite. An economical substitute to the Gore Fiber™

SERVICE

For use in pumps, valves, mixers and agitators. Especially designed for services involving surface speeds and temperature higher than those normally specified for packing manufactured from pure PTFE filaments. Can be safely used in all chemical pump applications with the exception of molten alkali metals, fluoride, oleum, fuming nitric acid, aqua regia and other strong oxidizing agents. It is also suitable against water, steam, petroleum derivatives, vegetable oils and solvents.

Color

Black

pH Range

0 to 14

Max. Temperature

-85°C (-115°F) to 288°C (550°F)

Max. Pressure

14 MPa (140 bar) (2030 PSI)

Max. Shaft Speed

20 m/s (4000 FPM)

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	68.05	38.28	24.50	17.01	9.57	6.12	4.97	4.25	3.12	2.39	1.89	1.53	1.27	1.02

Size	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb	76.95	40.23	22.63	14.48	10.06	7.39	5.66	4.47	3.62	2.51	1.85	1.41

RCP 726



DESCRIPTION

RCP 726 is a new innovative packing combining today's high performance lubricants and designed for high speed shafts. The packing is constructed by cross-braiding a special continuous PTFE filament, which incorporates aramid fibers and graphite. The product is impregnated with high temperature lubricant.

Application

Suitable for centrifugal, rotary and reciprocating pumps. It has excellent resistance to seawater, brines, sludges, slurries, waste, petroleum fuels, solvents and chemicals.

COLOR

Black

PH Range

2 to 12

Temperature Range

From -85°C (-115°F) to 288°C (550°F)

Max. Pressure

20 Mpa (200 bar) (3000 PSI)

Max. Shaft Speed

22 m / s (4400 FPM)

Ordering Information

Size mm	4	5	6	8	10	12	14	15	16	18	20	25	30
M/Kg	38.50	25	17.25	9.81	6.25	4.35	3.19	2.80	2.46	1.93	1.6	1.00	0.70

Size Inch	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./Lb.	129.10	57.00	33.20	21.10	14.60	10.8.	8.20	6.50	5.30	3.70	2.80	2.10

RCP 808



DESCRIPTION

A dense but flexible general service packing

CONSTRUCTION

Interlock braid using carded synthetic yarns thoroughly impregnated with petroleum based lubricants, graphite, and PTFE

APPLICATION

RCP 808 is suitable for a wide variety of solvents, alkalis, mild acids, oils and water. Recommended for rotary and reciprocating pumps. It ensures excellent seal against steam, brine, oil, mild acids and alkalis.

COLOR

Black

pH Range

3 to 12

Max. Temperature

up to 290°C (560°F)

Max. Pressure

14 Mpa (2000 PSI)

Max. Shaft Speed

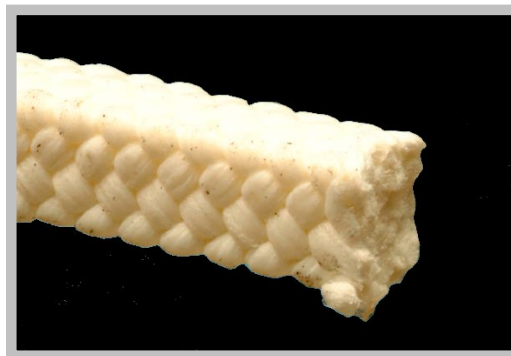
15 m / s (3000 FPM)

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	106.00	60.30	38.10	26.10	15.05	9.20	7.81	6.50	4.60	3.72	2.95	2.20	2.00	1.45

Size Inch	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./Lb.	92	48.10	25.90	16.20	11.30	7.85	6.30	5.30	4.05	2.80	2.01	1.60

RCP 783D



PTFE FILAMENT, DRY

DESCRIPTION

A firm high density PTFE filament packing used in valves or lower shaft speed applications. Recommended environment are all types of chemicals, aggressive fluids, gases and solvents, with exception of molten alkali metals. It is especially suited for oxygen or other services where no organic materials or lubricants other than PTFE are allowed.

Construction

X-braid, using pure PTFE filament pre-treated with PTFE dispersion

COLOR

White

PH Range

0 to 14

Max. Temperature

-85°C to 288°C

Max. Pressure

15 Mpa (150 bar)

Max. Shaft Speed

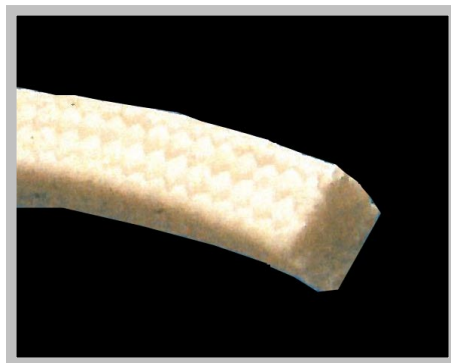
2 m / s

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	74.01	41.63	26.64	18.50	10.41	6.66	5.40	4.63	3.40	2.60	2.06	1.67	1.38	1.27

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb	74	32	20.6	13.5	9.5	7	5.5	4.1	3.3	2.5	2	1.6

RCP 783L



PTFE Filament with Lubricant

DESCRIPTION

A pliable and soft, yet dimensionally stable packing, which has excellent lubricant and running characteristics. It is suited for high-speed rotary shaft service, and handles all acids, alkalis and most chemicals, with the exception of molten alkali metals.

CONSTRUCTION

X-braid, using pure PTFE filament pre-treated with PTFE dispersion plus a break-in lubricant to reduce the friction coefficient as well as the frictional heat created under high shaft speeds.

COLOR:

White

pH Range

0 to 14

Max. Temperature

-85°C (-115°) to 288°C (550°)

Max. Pressure

14 MPa (150 bar) (2175 PSI)

Max. Shaft Speed

8 m/s (1575 FPM)

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	65.89	37.07	23.72	16.47	9.27	5.93	4.81	4.12	3.03	2.32	1.83	1.48	1.23	0.98

Size	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb	72	31	19.4	12.5	9	7	5.1	4.1	3.3	2.3	1.7	1.2

RCP 803



DESCRIPTION

Special syntex fiber, with each strand impregnated with PTFE dispersion both prior to and after braiding. Finished packing also has a break-in lubricant. Asbestos replacement packing for general service applications. Good chemical resistance.

SERVICE

Excellent multi-service packing for a wide variety of uses throughout a plant. Recommended for use in steam, water, solvents, oils, most chemicals, mild acids and alkalis.

COLOR

White

pH Range

3 to 12

Max. Temperature

-40°C (-40°F) to 260°C (500°F)

Max. Pressure

14 Mpa (2030 PSI)

Max. Shaft Speed

13 m / s (2600 FPM)

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	65.03	36.58	23.41	16.26	9.14	5.85	4.74	4.06	2.99	2.29	1.81	1.46	1.21	1.05

In.	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb.	80	40	22.8	16	11.4	8.8	6.60	4.7	3.6	2.6	2	1.5

RCP 400RC



DESCRIPTION

Manufactured from synthetic fiber of high strength with TEFLON suspenoid and break in lubricant. The packing offers excellent resistance and designed to seal in applications where large run-out or eccentricity of the shaft exists or large deformation of the packing is required.

Max. Pressure: 120 BAR
Max. Temperature: 288°C
PH Range: 1-14
Shaft Speed: 20 M/S

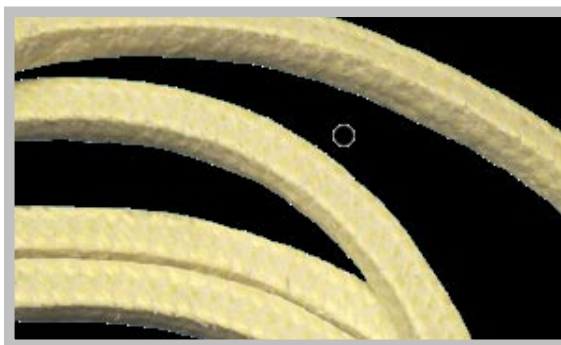
Application:

RCP 400RC is recommended for mixers, agitators, and reciprocating pumps where you have large amounts of shaft run-out.

Yields Meters per Kilo
Please Note: Yields are Plus or Minus 10%

Size	6	8	10	12	14	16	18	20	22	24	25
	18	11	7	5.3	4	3.3	2.6	2.1	1.7	1.4	1.3

RCP 538



DESCRIPTION Aramid fiber impregnated with PTFE and break-in lubricant. Extremely durable and highly abrasive resistant packing.

APPLICATION Mild caustics, oils, sewage, sea water and slurries.

Construction Interbraid
Temperature 260°C
Pressure 35 BAR (Rotary)
PH Range 3-11
Shaft Speed 12 M/S

Meters / Kg

3	4	5	6	8	10	11	12	14	16	18	20	22	25
75	43	27	19	11	7	5.50	4.80	3.6	3	2.20	1.80	1.45	1.15

RCP 538RC



DESCRIPTION

Manufactured from high strength Kevlar fiber braided around 4 equally spaced silicon rubber forming a packing that offers excellent resilience and wear resistance. Excellent for worn glands and for large equipment with eccentricity and run-out problems.

MAX.PRESSURE:
100 BAR

TEMPERATURE:
288°C

PH Range:
3-11

Shaft Speed:
4500 FPM

RCP 538RC is recommended for mixers, agitators, and reciprocating pumps where you have large amounts of shaft run-out.

Application:

Please Note: Yields are Plus or Minus 10%

Size	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1"
FT/L	46.03	25.89	16.57	11.51	8.45	6.47	5.11	4.14	2.88	2.11	1.62

RCP 602



DESCRIPTION

Braided from pure high grade FLAX fibers and lubricated with PTFE dispersion, and special marine lubricant. Before braiding, the fibers are twisted to increase the strength of the packing. It has low friction and very high tensile strength.

Excellent packing for stern tube and paper mills

Temperature:	250°F, 120°C
Pressure:	300 PSI (21 BAR)
Speed:	2500 FPM
PH Range	4-11

Yield: FT/LB

1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
127	57	32	20	14	11	8	6.50	5.10	4	2.7	1.97

Yield: M/Kg

3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	11 mm	12 mm	14 mm	16 mm	18 mm	20 mm	22 mm	25 mm
96	54	34.10	24	14	9	7	6	4.50	3.60	3	2.20	2	1.4

RCP 842



DESCRIPTION

A special Kynol™ fiber treated with PTFE and high temperature break-in lubricant. This is non-staining and non abrasive packing.

SERVICE

RCP 842 is ideal for pulp and paper industry, chemical plant, for use in water, steam, oils and hydrocarbons.

COLOR

Reddish

pH Range	1 to 13
Max. Temperature	260°C (500°F)
Max. Pressure	20 bar (300 PSI)
Max. Shaft Speed	12 m/s (2400 FPM)

Ordering Information

Size	3	4	5	6	8	10	11	12	14	16	18	20	22	25
M/Kg	N/A	47.00	30.35	22.30	17.50	11.30	7.80	6.30	4.60	3.05	2.60	1.91	1.60	1.25

Size	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Ft./lb	N/A	55.00	28.00	18.30	12.60	9.85	7.10	6.05	4.95	3.60	2.40	1.85

PTFE VALVE STEM PACKING



Description This soft flexible packing is easy to install. In most cases it is not necessary to remove the valve from service, and no disassembly is required. When this cord like packing is wound around a valve stem, pushed into the stuffing box and compressed by tightening the gland nut, it is compacted into high-density packing.

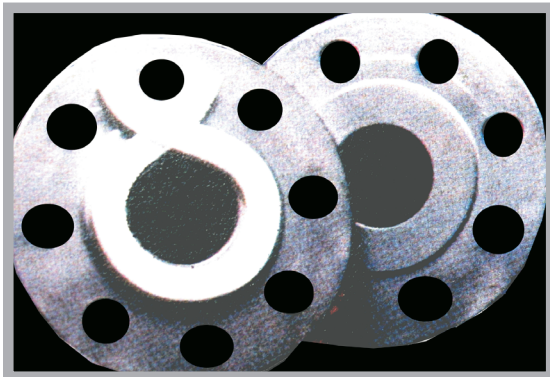
Construction Continuous cord

Base Material Pure PTFE
PH Range 0-14
Temperature -268°C to 288°C

Standard Sizes:

2.5 mm	By	30 MTR
4 mm	By	25 MTR
6 mm	By	20 MTR
8 mm	By	15 MTR
10 mm	By	15 MTR
16 mm	By	10 MTR
20 mm	By	5 MTR

PTFE Joint Sealant w/ Adhesive



Description: Rasstech Joint Sealant is manufactured from pure PTFE. It is a superior & cost effective alternative to standard gasket sheets. Ideal for complex or large gaskets & for re-sealing damaged, worn or distorted flanges. Flexible/economical, it is fast & easy to cut/install. Resists cold flow.

Specifications:

PH Range: 0-14
Temp: -240°C + 288°C
Pressure: 3000 PSI (207 BAR)

Standard Sizes:

3mm	x	1.5mm	x	30M
3mm	x	2mm	x	30M
5mm	x	2mm	x	30M
7mm	x	2.5mm	x	20M
6mm	x	3mm	x	20M
6mm	x	1mm	x	20M
9mm	x	4mm	x	15M
10mm	x	3mm	x	10M
10mm	x	5mm	x	10M
10mm	x	5mm	x	10M
12mm	x	4mm	x	10M
14mm	x	5mm	x	10M
16mm	x	4mm	x	10M
10mm	x	4mm	x	10M
20mm	x	4mm	x	10M
25mm	x	4mm	x	5M
30mm	x	4mm	x	5M
40mm	x	3mm	x	5M



PRIMO ENERGY INTERNATIONAL, INC.

Office: 713.936.2070

www.primoenergyintl.com

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