


Petrorays PRODUCTS Co

126/128, Nagdevi street, 2nd Floor, Mumbai - 400 003. India
 Phone: (022) 6634 9695 / 2340 3706 / 2346 3492 Fax: +91 (022) 2340 3706
 Email: info@chiragtechno.com www.chiragtechno.com

A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 11 & 12

PTFE UNIVERSAL SOFT & FLEXIBLE PACKINGS

Construction:	Extruded soft packing made form PTFE & High Temperature Lubricant. Available in round & square section								
Applications:	Suitable for pumps, valves & many other static applications Due to the chemical inertness of PTFE it can be used with all substances. Offers excellent sealing when used in place of gaskets or jointing in flanges in almost all type of industries								
Technical Parameters:	<table border="1"> <tr> <td>Temperature</td> <td>- 100°C to +260°C</td> </tr> <tr> <td>pH Range</td> <td>0 - 14</td> </tr> <tr> <td>Pressure</td> <td>20 Kg/Cm²</td> </tr> <tr> <td>Shaft Speed</td> <td>4 Meters / Second</td> </tr> </table>		Temperature	- 100°C to +260°C	pH Range	0 - 14	Pressure	20 Kg/Cm ²	Shaft Speed
Temperature	- 100°C to +260°C								
pH Range	0 - 14								
Pressure	20 Kg/Cm ²								
Shaft Speed	4 Meters / Second								

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✗
Hydrogen	✓	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✓
Oxygen		Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✓

✓	Recommended	✗	Limited Recommendable
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❖ Procedure for Installation of Gland packings is mentioned at the end.

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 13

(PTFE + GRAPHITE SOFT PACKINGS)

Construction:	An extremely low friction extruded soft and dense packing made from a special grade of PTFE, graphite and high temperature lubricant.								
Applications:	The self-lubricating packing has excellent thermal and chemical resistance. It reduces friction to shafts and resists gas permeation. It is used in pumps, valves, stirring equipments and static application for use with acids, dyes, solvents, adhesives and abrasive media. It is recommended to use rings of Style 62 or Style 71 on both ends								
Technical Parameters:	<table border="1" style="width: 100%;"> <tr> <td>Temperature</td> <td>- 100°C to +300°C</td> </tr> <tr> <td>pH Range</td> <td>0 - 14</td> </tr> <tr> <td>Pressure</td> <td>100 Kg/Cm²</td> </tr> <tr> <td>Shaft Speed</td> <td>12 Meters / Second</td> </tr> </table>		Temperature	- 100°C to +300°C	pH Range	0 - 14	Pressure	100 Kg/Cm ²	Shaft Speed
Temperature	- 100°C to +300°C								
pH Range	0 - 14								
Pressure	100 Kg/Cm ²								
Shaft Speed	12 Meters / Second								

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✗
Hydrogen	✓	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✓
Oxygen		Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✓

✓	Recommended	✗	Limited Recommendable
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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 14

VALVE SEAL

Construction:	Valve Seal is provided with double construction of 100% PTFE core with spiral wrapping of PTFE tape.								
Applications:	The core fills all voids and conforms to uneven spindles and flanges while the spiral wrapping of PTFE Tape prevents extrusion at both ends of the spindle. Valve seal is chemically inert, Self -lubricating and does not adhere or harden on use. It is widely recommended for use on valves in various industries for obtaining practically zero Leakage Can also be used in place of gaskets in flanged joint.								
Technical Parameters:	<table border="1"> <tr> <td>Temperature</td> <td>- 100°C to +260°C</td> </tr> <tr> <td>pH Range</td> <td>0 - 14</td> </tr> <tr> <td>Pressure</td> <td>200 Kg/Cm²</td> </tr> <tr> <td>Shaft Speed</td> <td>--</td> </tr> </table>		Temperature	- 100°C to +260°C	pH Range	0 - 14	Pressure	200 Kg/Cm ²	Shaft Speed
Temperature	- 100°C to +260°C								
pH Range	0 - 14								
Pressure	200 Kg/Cm ²								
Shaft Speed	--								

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✓
Hydrogen	✓	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✓
Oxygen	✓	Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✓

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 41

PURE EXPANDED GRAPHITE PACKING

Construction: Diagonally braided from pure expanded flexible graphite yarn.

Applications: Very flexible and supple packing, excellent alternative to pre-formed graphite-rings. The benefits of this packing are low friction and excellent thermal conductivity. It can be used with steam, water, oils, alkalis, acids, solvents, paints varnishes on pumps & valves in high temperature and high pressure environments prevailing in power plants, boiler house, refineries, steel mills, petrochemicals industries etc.



Technical Parameters:

Temperature	- 240°C to +650°C
pH Range	0 - 14
Pressure	300 Kg/Cm ²
Shaft Speed	25 Meters / Second

RECOMMENDED SERVICE MEDIA S

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✓
Hydrogen		Neutral Solutions	✓	Amines & Nitrates	✗	Bitumen	
Oxygen		Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 42

PURE CARBON PACKING

Construction:	High quality carbon fibre impregnated with graphite and an inert lubricant.		
Applications:	This packing is extremely flexible and has excellent heat dissipating properties and very low coefficient of friction. It can be used for sealing boiler feed pumps, valves, mixers etc. in pulp & paper, chemical, power plants pharmaceutical Industries etc.		
Technical Parameters:	Temperature		- 240°C to +600°C
	pH Range		0 - 14
	Pressure	200 Kg/Cm ²	
	Shaft Speed	20 Meters / Second	

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✓
Hydrogen		Neutral Solutions	✓	Amines & Nitrates		Bitumen	
Oxygen		Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 51

PTFE PACKING+HIGH-TEMPERATURE LUBRICANT

Construction: High tensile yarn made from a special grade PTFE, impregnated with PTFE dispersion and lubricated with inert high temperature lubricant.



Applications: This packing has particular characteristics such as low coefficient of friction and excellent tightness, making it suitable for rotary, reciprocating and static applications, It is widely used in all type of industries where purity and safety are vital criteria, such as food processing, pharmaceutical, chemical industries etc.

Technical Parameters:	Temperature	- 200°C to +260°C
	pH Range	0 - 14
	Pressure	100 Kg/Cm ²
	Shaft Speed	8 Meters / Second

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✓
Hydrogen	✗	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✗
Oxygen		Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✗

✓	Recommended	✗	Limited Recommendable
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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 52

PTFE PACKING+PTFE DISPERSION

Construction: High tensile yarn made of special grade PTFE and impregnated with PTFE dispersion.

Applications: This packing is mainly recommended where lubricant is not to be used due to danger of combustion. It is also used in pumps having low shaft speed and equipments in handling hazardous & corrosive chemicals. PTFE being chemically inert, can be used with almost all chemicals.

Technical Parameters:

Temperature	- 200°C to +260°C
pH Range	0 - 14
Pressure	100 Kg/Cm ²
Shaft Speed	5 Meters / Second



RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✓
Hydrogen	✓	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✗
Oxygen	✓	Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✗

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 61

PTFE + GRAPHITE PACKING

Construction:	PTFE yarn coated with graphite and lubricated with an inert high temperature lubricant.								
Applications:	This packing is suitable for high-speed rotary application. It can be used in contact with most media including the most aggressives. Also suitable for oxygen, paints, lacquers, varnishes. This packing is used in chemicals ,petrochemicals, paper & pulp industries textiles industries power plants, etc								
Technical Parameters:	<table border="1"> <tr> <td>Temperature</td> <td>- 240°C to +300°C</td> </tr> <tr> <td>pH Range</td> <td>0 - 14</td> </tr> <tr> <td>Pressure</td> <td>300 Kg/Cm²</td> </tr> <tr> <td>Shaft Speed</td> <td>20 Meters / Second</td> </tr> </table>		Temperature	- 240°C to +300°C	pH Range	0 - 14	Pressure	300 Kg/Cm ²	Shaft Speed
Temperature	- 240°C to +300°C								
pH Range	0 - 14								
Pressure	300 Kg/Cm ²								
Shaft Speed	20 Meters / Second								

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✓
Hydrogen	✓	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✗
Oxygen		Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✗

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 62

PTFE + GRAPHITE PACKING

Construction:	A special grade of PTFE bonded with quality graphite and lubricated with an inert high temperature lubricant								
Applications:	This packing is ideally well suited for high peripheral speeds and temperature. It can be used in pumps, valves, mixers, reactors, agitators etc. This self-lubricating packing can be safely used in almost all chemical applications including the most aggressive widely used in refineries, petrochemicals, fertilizers, textiles industries, power plants, etc.								
Technical Parameters:	<table border="1"> <tr> <td>Temperature</td> <td>- 240°C to +300°C</td> </tr> <tr> <td>pH Range</td> <td>0 - 14</td> </tr> <tr> <td>Pressure</td> <td>300 Kg/Cm²</td> </tr> <tr> <td>Shaft Speed</td> <td>25 Meters / Second</td> </tr> </table>		Temperature	- 240°C to +300°C	pH Range	0 - 14	Pressure	300 Kg/Cm ²	Shaft Speed
Temperature	- 240°C to +300°C								
pH Range	0 - 14								
Pressure	300 Kg/Cm ²								
Shaft Speed	25 Meters / Second								

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✓
Hydrogen	✓	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✗
Oxygen	✓	Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✗

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 71

ARAMIDE (KEVLAR®) PACKINGS

Construction:	High strength organic aramide (aromatic polyamide) synthetic yarn impregnated with PTFE & lubricated with a special high temperature lubricant.								
Applications:	The high strength of the yarn and its abrasion resistance make it ideal for use with abrasive sand, slurry, gritty media, sludge & sewerage handling equipments. It is used in pulp and paper, chemical, petrochemicals, pharmaceuticals, sugar, food industries power plants, etc. Also used as anti extrusion rings in combination with other softer packing.								
Technical Parameters:	<table border="1" style="width: 100%;"> <tr> <td>Temperature</td> <td>- 240°C to +260°C</td> </tr> <tr> <td>pH Range</td> <td>2 - 12</td> </tr> <tr> <td>Pressure</td> <td>250 Kg/Cm²</td> </tr> <tr> <td>Shaft Speed</td> <td>12 Meters / Second</td> </tr> </table>		Temperature	- 240°C to +260°C	pH Range	2 - 12	Pressure	250 Kg/Cm ²	Shaft Speed
Temperature	- 240°C to +260°C								
pH Range	2 - 12								
Pressure	250 Kg/Cm ²								
Shaft Speed	12 Meters / Second								

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✗	Concentrated Alkalis		Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon		Solvents	✗	Paint Varnish	
Hydrogen		Neutral Solutions	✓	Amines & Nitrates	✗	Bitumen	✓
Oxygen		Concentrated Acids		Synthetic oils	✓	Abrasive media	✓

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 81

PTFE & PTFE GRAPHITE COMBINATION PACKING

Construction:	Alternately braided packing made from a high - grade PTFE yarn and specially developed graphite bonded PTFE yarn.								
Applications:	The alternate braiding of this packing allows graphite bonded PTFE yarn to come in direct contact with the rotating object, making it ideal for use in high speed applications. It is widely used in chemical and petrochemical industries for oils, concentrated acids corrosive gases etc.								
Technical Parameters:	<table border="1"> <tr> <td>Temperature</td> <td>-200°C to +260°C</td> </tr> <tr> <td>pH Range</td> <td>0 - 14</td> </tr> <tr> <td>Pressure</td> <td>200 Kg/Cm²</td> </tr> <tr> <td>Shaft Speed</td> <td>15 Meters / Second</td> </tr> </table>		Temperature	-200°C to +260°C	pH Range	0 - 14	Pressure	200 Kg/Cm ²	Shaft Speed
Temperature	-200°C to +260°C								
pH Range	0 - 14								
Pressure	200 Kg/Cm ²								
Shaft Speed	15 Meters / Second								

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✓
Hydrogen	✗	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✗
Oxygen		Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✗

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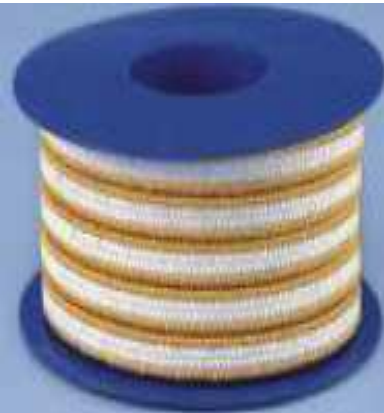
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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 82

PTFE & ARAMID COMBINATION PACKING

Construction:	Combination packing made of a high grade PTFE yarn with aramide corners.		
Applications:	A non toxic and dimensionally stable packing suitable for corrosive chemicals and abrasive media. This packing is also used as an Anti-extrusion rings as it can withstand high pressure in rotary as well as reciprocating applications. Widely used in food and pharma industries, dairies, refineries, fertilizer plants, etc.		
Technical Parameters:	Temperature		- 200°C to +260°C
	pH Range		2 - 12
	Pressure	180 Kg/Cm ²	
	Shaft Speed	12 Meters / Second	

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✗	Concentrated Alkalis		Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✗	Solvents	✓	Paint Varnish	
Hydrogen	✗	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✓
Oxygen		Concentrated Acids		Synthetic oils	✓	Abrasive media	✓

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : 83

PTFE + GRAPHITE & ARAMIDE COMBINATION PACKING

Construction: A high quality combination packing of graphite bonded PTFE yarn with aramide concerns.

Applications: This packing has good sliding properties and thermal conductivity, making it an excellent packing option for high pressure pumps with sliding velocity. Aramide yarn corners prevent gap extrusion in high pressure & high temperature applications. It is widely used in applications involving abrasive media.



Technical Parameters:	Temperature	-240°C to +260°C
	pH Range	0 - 12
	Pressure	200 Kg/Cm ²
	Shaft Speed	20 Meters / Second

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✗	Concentrated Alkalis		Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✗	Solvents	✓	Paint Varnish	
Hydrogen	✗	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✓
Oxygen		Concentrated Acids		Synthetic oils	✓	Abrasive media	✓

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : HC/SC

HOLLOW CORE / SOLID CORE PACKING

Construction:	A packing with a center of hollow silicon core or solid silicon cord braided around by yarn of style 51, 62, 71, 82 & 83						
Applications:	A specially developed packing for use on rotating equipments with excessive shaft deviation. It also reduces shaft / sleeve wear. The center of silicon core / cord gives it strong restoration properties and exerts back-pressure, resulting in total sealing. This packing is suitable for pumps, reactors, mixers, agitators, etc.						
Technical Parameters:	<table border="1"> <tr><td>Temperature</td></tr> <tr><td>pH Range</td></tr> <tr><td>Pressure</td></tr> <tr><td>Shaft Speed</td></tr> </table>	Temperature		pH Range	Pressure	Shaft Speed	Varies according to the packing style
Temperature							
pH Range							
Pressure							
Shaft Speed							

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✓	Concentrated Alkalis	✓	Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✓	Solvents	✓	Paint Varnish	✗
Hydrogen	✓	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✓
Oxygen		Concentrated Acids	✓	Synthetic oils	✓	Abrasive media	✓

✓	Recommended	✗	Limited Recommendable
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❖ Procedure for Installation of Gland packings is mentioned at the end.

All Trademarks used are properties of there respective owners.

All technical information & recommendations given are based on our experiences. However we do not undertake any legal responsibilities for the same. The customer is adv to check information data & results. Since the performance of a packings can be judged only through evaluating on site.

Petrorays PRODUCTS Co

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

STYLE No : PUTTY

PTFE PUTTY / PTFE + GRAPHITE PUTTY

Construction: A malleable paste made from special grade PTFE or special grade PTFE bonded with high purity Graphite, and a balanced compound of various oils, greases and binders.

Applications: This self-lubricating putty has excellent thermal and chemical resistance, and reduces friction on shafts. It is widely used on scored shafts and valve steam, in pump valves, rector, agitators, etc. It is recommended to use anti extrusion rings of Style 51, 62, & 71



	PTFE PUTTY	PTFE + Graphite PUTTY
Technical Parameters:		
Temperature	-100°C to +260°C	-100°C to +300°C
pH Range	0 - 14	0 - 14
Pressure	100 Kg/Cm ²	100 Kg/Cm ²
Shaft Speed	5 Meters / Second	12 Meters / Second

RECOMMENDED SERVICE MEDIAS

Water	✓	Acidic Gas	✗	Concentrated Alkalis		Mineral Oil & Grease	✓
Steam	✓	Volatile Hydrocarbon	✗	Solvents	✓	Paint Varnish	
Hydrogen	✗	Neutral Solutions	✓	Amines & Nitrates	✓	Bitumen	✓
Oxygen		Concentrated Acids		Synthetic oils	✓	Abrasive media	✓

✓	Recommended	✗	Limited Recommendable
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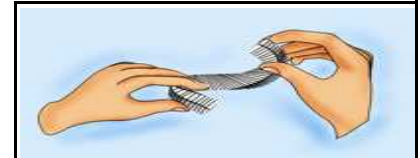
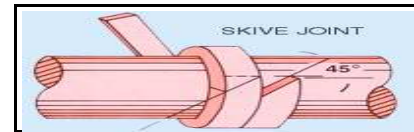
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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

INSTALLATIONS INSTRUCTIONS FOR PACKINGS

- 1 When rings are to be formed from continuous length of packing, spirally wrap the packing around a rod of diameter equivalent to the valve spindle. Cut the required number of rings to fill the packing space, with a sharp knife to obtain good butt joints.
 - 2 Remove all old packing carefully.
 - 3 Clean properly all the surfaces that will be in constant contact with the packing and if possible apply lubricant. Check gland and neck bushes and spindle or shaft surface for wear and repair if necessary.
 - 4 Place the first ring around the spindle or shaft by opening to an "s" configuration to ensure that the ring is not damaged.
 - 5 First partially enter both ends of the first ring simultaneously into the stuffing box and then insert the remaining part of the rings. After that firmly push it to the bottom of the stuffing box. Assist with split sleeve
 - 6 Similarly insert other rings and ensure that the joints are at 90°.
- N.B: rings must be fitted individually and not as a set



FOR PUMPS APPLICATIONS

- 1 When all the rings have been fitted to fill the stuffing box, fit the gland follower and tighten the gland nuts to level the gland spigot. Tighten up to finger tightness only, then turn nut by one or two thread, loose it back & again tighten up to finger tightness again.
(when storage is anticipated the gland should be left slack.) **DO NOT OVERTIGHTEN.**
- 2 Run pump up to operating speed for 10 to 15 minutes. If there is no leakage, stop pump, and loosen gland further. Repeat until leakage occurs. The controlled leakage, essential for lubrications purpose, can then be obtained by running the pump and evenly tightening the gland nut in increments of two threads until approximately one drop every few seconds is obtained. Approximately 15 minutes should be left between successive adjustments.

FOR VALVES

- 1 When all the rings have been fitted to fill the stuffing box, fit the gland follower and tighten the gland nuts to level the gland spigot.
Tighten evenly until spindle has been tightly gripped then ease off the gland nuts so that the spindle will just turn. The system pressure can now be introduced.
- 2 After a few hours service it is advisable to check the gland adjustment for any looseness that may have taken place due to initial setting in.

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A COMPLETE RANGE OF NON - ASBESTOS GLAND PACKINGS

INSTALLATIONS INSTRUCTIONS FOR PACKINGS

CALCULATIONS HELP

1	Calculate Gland packing ring length = $\frac{OD + ID}{2}$
2	Shaft Speed conversion (Metric English) = Shaft speed = $\frac{\text{Shaft diameter}}{\text{Constant}}$ (rpm)
3	Calculate the stuffing box volume of CMS 2000 = $(OD^2 - ID^2) \times (0.7854) \times \frac{(OD - ID)}{2}$ (r-2)

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