

**Asbestos
FREE**

SPECIALITY PERFORMANCE PACKINGS



An ISO 9001 Company



CHAMPION SEALS (INDIA) PVT. LTD.

www.championseals.in

STYLE 1

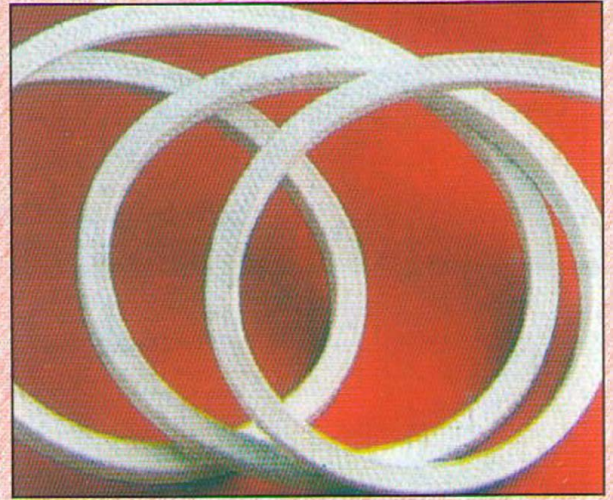
A PURE PTFE yarn packing with no additive or lubricants. The packing is resilient, with low coefficient of friction, dimensional stability, with minimum frictional heat.

SERVICE RECOMMENDATIONS :

The packing is chemically inert. It is recommended for oxygen service and oxidising media, for PUMPS AND VALVES, MIXERS, agitators, CONCENTRATED acids, alkalies., aggressive vapours and gases. It can also be used in food industry.

NOT TO BE USED ON MOLTEN ALKALI METALS AND FLUORINE.

Temperature : -200°C to + 280°C
Pressure : Upto 400 Bar
pH : 0 to 14



STYLE 2

The packing is manufactured from PURE PTFE yarn impregnated with PTFE dispersion by a special process. The packing has dimensional stability, high compressibility and low coefficient of friction.

SERVICE RECOMMENDATIONS :

For valve, reciprocating rods, centrifugal pumps, mixers, corrosive gases, acids and alkalies, ammonia, solvents, hydrocarbons, food stuff and pharmaceutical industries.

NOT TO BE USED AGAINST FLUORINE AND ALKALI METALS.

Temperature : -210°C to + 280°C
Pressure : Max upto 500 Bar
pH : 0 to 14



STYLE 3

This universal pump packing is manufactured from PTFE IMPREGNATED YARN, treated with high temperature resisting lubricant. The packing has compressibility, flexibility, dimensional stability, low coefficient of friction. Fluids can be sealed with minimum of gland pressure and heat built up.

SERVICE RECOMMENDATIONS :

A reliable packing for valves, agitators, rotary and reciprocating pumps in highly aggressive chemicals, corrosive liquids, concentrated acids, alkalies, oils, solvents, gases, pharmaceuticals, and foodstuff industries.

NOT RECOMMENDED FOR MOLTEN ALKALI METALS, FLUORINE GAS.

Temperature : -200°C to + 280°C
Pressure : Upto 350 Bar
pH : 0 to 14



ALL STYLES AVAILABLE IN ACCURATE RING FORM
Sizes : 3mm to 5mm in 10 metre spools.
6mm & above in Boxes in Kg.

STYLE 66

A 100% pure GRAPHITE YARN packing impregnated with a Blocking Agent. GRAPHITE fibers do not harden or glaze at high temperature. With lubricating value of graphite, the packing is frictionless eliminating shaft wear. The packing has high heat conductivity, high temperature resistance and low coefficient of expansion.

APPLICATION :

The packing has excellent chemical resistance. Applications include valves, centrifugal and rotary pumps, mixers, agitators, at high surface speeds, handling aggressive fluids such as acids, alkalies, oils, solvents, steam, hot tar and refinery services.

NOT RECOMMENDED FOR oxygen, oxidising environment, fuming nitric acid.

Temperature	:	-100°C to + 650°C
Non oxidizing environment	:	Upto 2700°C
Pressure	:	Upto 350 Bar
pH	:	0 to 14



STYLE 668

Pure 100% expanded Graphite packing. It is chemically inert, resilient and compatible self lubricating with low frictional coefficient and having high thermal conductivity.

APPLICATION :

An ideal packing for high pressure and temperature for pumps and valves in a wide range of service applications in most fluids including petrochemicals, refineries, thermal power stations, fertilizer plants, steel works, in steam hot oils, solvents, hydrocarbons, alkalies, acids and paper mills.

NOT RECOMMENDED FOR strong oxidising compounds, hot nitric acid, concentrated sulphuric acid, molten metals, aqua regia, oleum.

Temperature	:	-200°C to +500°C
Inert, non oxidizing environment	:	Upto 3000°C
Pressure	:	Upto 300 Bar
pH	:	0 to 14



ALL STYLES AVAILABLE IN ACCURATE RING FORM
Sizes : 3mm to 5mm in 10 metre spools.
6mm & above in Boxes in Kg.

STYLE 172

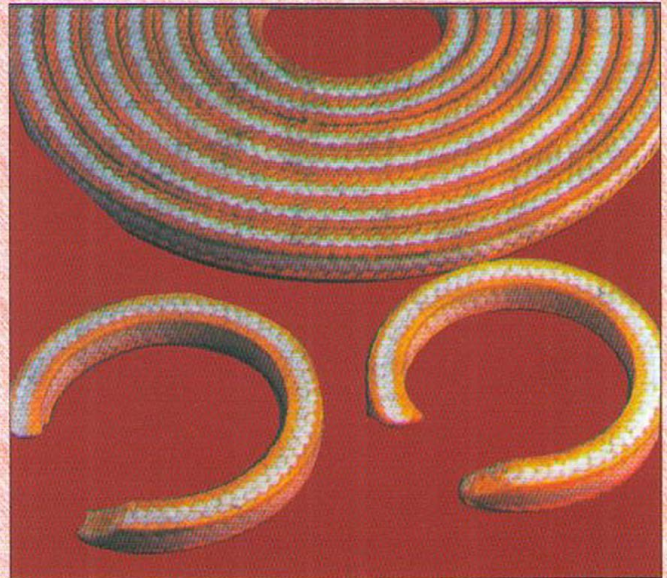
The packing is combination of tough high strength ARAMID fiber yarn on corners and PTFE lubricated yarn on the sides. The positioning of tough ARAMID yarn with negligible friction of PTFE Yarn renders the packing best suited for high pressure rotating and reciprocating applications. The packing constituents have very low thermal expansion, good dimensional stability and creep resistance under high pressure applications.

SERVICE RECOMMENDATIONS :

Best for sealing wide range of slurry and high pressure pumps, agitators, valves, mixers, in chemicals, acids, alkalies, most gases, petroleum fertilizers oils, steam, aromatic solvents, ammonia and CARBAMATE services.

NOT RECOMMENDED FOR OXYGEN and oxidant alcohols. Preferred use against abrasive media in slurries, mixers and agitators.

Temperature : -200°C to + 280°C
Pressure : Upto 500 Bar
pH : 2 to 12



STYLE 174

This Abrasion resistant, inert packing is produced from tough high strength ARAMID fiber filament yarn with each strand fully impregnated with PTFE high temperature resisting lubricants. The packing has flexibility, resiliency, lubricity with excellent thermal and dimensional stability, treating the shaft gently.

SERVICE RECOMMENDATIONS :

For abrasive media and slurry applications in valves, mixers, agitators, rotary and reciprocating applications in solvents, mild acids and alkalies, petrochemicals, paper and pulp, pharmaceuticals.

Temperature : -200°C to + 300°C
Pressure : Upto 280 Bar
pH : 3 to 12



ALL STYLES AVAILABLE IN ACCURATE RING FORM
Sizes : 3mm to 5mm in 10 metre spools.
6mm & above in Boxes in Kg.

STYLE 176

A combination to tough ARAMID fiber yarn in the corner and core strands and PTFE GRAPHITE yarn on the seam strands. This structure generates maximum resistance to extrusion; simultaneously the graphite PTFE yarn on the sides of the packing imparts thermal conductivity and lubricity for cooler shaft running.

SERVICE RECOMMENDATIONS :

Best for applications on abrasive fluids and slurries in centrifugal and reciprocating pump at high temperature and under high pressure for acids, alkalies, organic and inorganic solvents, chemicals, sewage water, oils, gases, paper and pulp mills.

Temperature : -200°C to +300°C
Pressure : Upto 500 Bar
pH : 3 to 12



STYLE 36

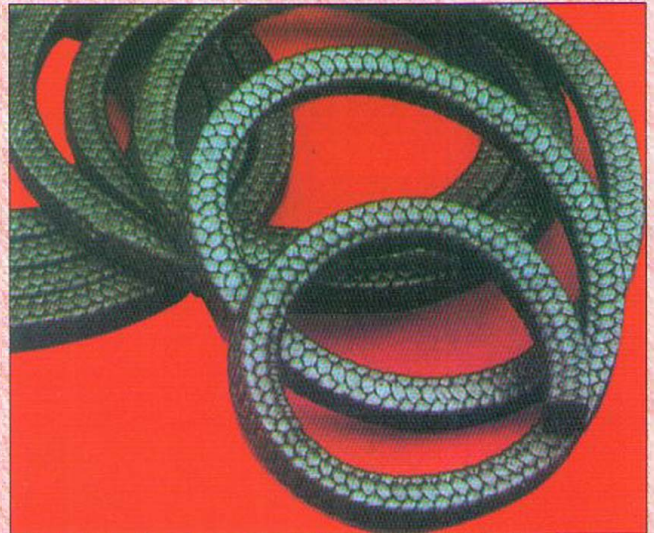
This versatile high performance packing is plaited from GRAPHITE FILLED PTFE YARN. Due to this unique combination this packing has high thermal conductivity, low coefficient of thermal expansion, lubricity, low friction, minimum shaft wear and universal chemical resistance. The packing is non hardening.

SERVICE RECOMMENDATIONS :

For centrifugal, rotary pumps, agitators, mixers and low pressure valves, handling chemicals, caustics, acids, solvents, dyes, white and black liquor, oils, pulp and paper, abrasive materials etc.

NOT RECOMMENDED FOR FLUORINE, STRONG OXIDISING AGENTS, FUMING NITRIC ACID, OLEUM, AQUAREGIA.

Temperature : -212°C to +280°C
Pressure : Upto 250 Bar
pH : 0 to 14



ALL STYLES AVAILABLE IN ACCURATE RING FORM
Sizes : 3mm to 5mm in 10 metre spools.
6mm & above in Boxes in Kg.

STYLE 3116

A cotton yarn packing as in STYLE 376 with Graphite impregnation as an added lubricant. the packing is resilient and flexible.

APPLICATION :

Rotary, reciprocating pumps, in ship building and domestic fresh water pumps.

Temperature : 130°C
Pressure : Upto 70 Bar
pH : 6 to 8



STYLE 2222

The packing is made from longline flax fiber yarn, square braided construction. The yarn is thoroughly impregnated during construction process with a non graphite lubricant and further surface treated with a special water resistant lubricant.

APPLICATION :

The packing is designed basically as hydraulic purpose pump packing, for cold water, sea water, river water in reciprocatory, rotary pumps as STERN GLANDS in shipping / marine industry.

Temperature : 130°C
Pressure : Upto 200 Bar
pH : 5 to 9



STYLE 2224

Basically the packing is for Marine STERN GLANDS. Manufactured from long flax fiber yarn impregnated with PTFE and additional lubricant, specially blended for hydraulic applications, combining strength firmness flexibility, lubricity and compressibility.

APPLICATION :

For rotary, reciprocating and static applications, in fresh & brine water in pumps, ram presses, accumulators, in paper mills, pharmaceuticals and foodstuff, stern tubes and RUDDER POST seals in marine and ship building and STERN GLANDS.

Temperature : 150°C
Pressure : Upto 240 Bar
pH : 6 to 10



ALL STYLES AVAILABLE IN ACCURATE RING FORM
Sizes : 3mm to 5mm in 10 metre spools.
6mm & above in Boxes in Kg.

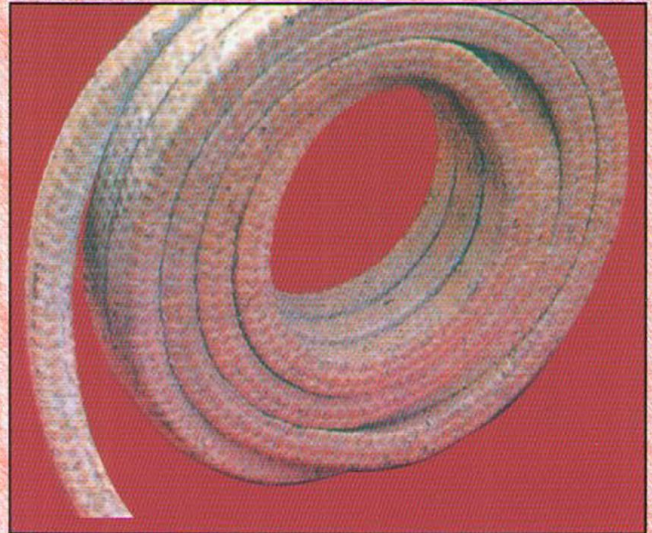
STYLE 374

This hydraulic packing is braided from soft natural fibre cotton Yarn impregnated with high grade PTFE lubricant and additives. The packing has a low coefficient of friction, is resilient and flexible.

APPLICATION:

Basically the packing is designed for HYDRAULIC APPLICATION in low and medium pressure pumps and valves handling hot and cold water, condensates, air compressors, vacuum pumps and in thermal power plants.

Temperature : Upto 150°C
Pressure : Upto 80 Bar
pH : 4 to 10



STYLE 376

The packing is plaited from long staple cotton fiber yarn impregnated with high grade lubricants. The packing has resiliency and flexibility.

APPLICATION:

For high speed centrifugal and reciprocating pumps, condensate pumps, air compressors and refrigeration, ammonia, alcohol, water and hydraulic services.

Temperature : Upto 130°C
Pressure : Upto 80 Bar
pH : 6 to 8

**SIZES : 3 MM TO 5 MM IN 10 meter spools.
6MM & above in Boxes in kg.**



ALL STYLES AVAILABLE IN ACCURATE RING FORM









Information on different products are based on general knowledge and experience is given and accepted at the buyers risk. Considering the wide range of applications concerning media, pressures, temperatures, shaft speeds, and human factors involved. No warranty is given or implied with respect to given information. SPECIFICATIONS are subject to change without notice.








CHAMPION SEALS (INDIA) PVT. LTD.

Champion Compound, 15, Parsi Panchayat Road, Andheri (E), Mumbai - 400 069. India.
Phone : +91-22-28367311-15 ■ Fax : +91-22-28367316 / 28208686
E-mail: sales@championseals.in, exports@championseals.in ■ Web. www.championseals.in

ASBESTOS FREE RANGE OF PACKINGS, SEALING AND INSULATION PRODUCTS.

CHAMPION Style	Description	pH	Temperature °C					Size mm ²	
				Bar	Bar	m/s	Bar		m/s
 374	HYDROFLON PACKING	4-10	-40 To +150	80	10	7	50	1	3-100
 376	COTTON HYDRAULIC PACKING	6-8	-40 to +130	80	10	7	50	1	3-100
 3116	NATURAL FIBRE PACKING	6-8	-40 to +130	70	10	7	50	1	3-100
 2222	STERN GLAND PACKING	5-9	-40 to +130	200	10	3	100	1	3-100
 2224	STERN FLON MARINE PACKING	6-10	-40 to +150	240	25	9	100	1	3-100
 2300	HEAVY DUTY STEAM GLAND PACKING	6-10	-40 to +130	200	10	4	100	1	3-100
 3094	PTFE IMPREGNATED NON ASBESTOS PACKING	3-12	-50 to +350	200	20	5	30	3	3-100
 3800	SELF LUBRICATED GRAPHITED NON-ASBESTOS PACKING	0-14	-50 to +500	150	25	10	100	2	3-100
 6100	LUBRICATED & GRAPHITED SYNTHETIC PACKING	0-13	Upto 260	150	50	10	100	1.5	3-100
 6094	PTFE IMPREGNATED SYNTHETIC PACKING	1-13	Upto 260	100	20	15	100	2	3-100

Insulation

 3000	NON ASBESTOS INORGANIC FIBRE PACKING	0-14	Up To 600 °C						
 7000	CERAMIC BRAIDED ROPE	0-14	Up To 1250 °C						
 7012	CERAMIC LAGGING ROPE	0-14	Up To 1250 °C						
 7056	CERAMIC YARN	0-14	Up To 1250 °C						
 7132	CERAMIC CLOTH	0-14	Up To 1250 °C						

Information in this catalogue is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to such information.