

MARINE AND HYDRAULIC WATER, OIL		
Style No. "SPITMAAN"	Temperature (Centigrade)	Service Recommendation
2222	130°	This is a specially developed lubricated non-graphited long vegetable fibre braided packing for marine applications. It has been further lubricated with a low friction dry lubricant to enhance antifricition property for use in sea water and fresh or river water applications, water wheel shafts or rudder and stern glands.
2224	150°	The most critical parts to seal in a ship are the stern tubes and the rudder post. With this view in mind, a most reliable packing is specially developed from non-asbestos tough vegetable fibres. The packing is impregnated with lubricants which protect the packing structure. This packing is therefore most suited for use in marine against sea water in rudder posts and stern tubes, oils, weak alkali solutions and in paper plants.
2300	130°	This packing is manufactured from high tensile strength vegetable fibre thoroughly impregnated with a special lubricant and graphite. Suitable for fresh and salt water, pen-stock and heavy duty hydraulic applications.
376	130°	A special non-graphited soft natural fibre yarn packing impregnated with first grade lubricant suitable for high speed centrifugal pumps, compressors and refrigerations, D M Water, cooling water and condensate pumps. Owing to the pliable nature of the material used this packing permits free motion of the rod.
374	150°	DUPLEX BRAIDED fine soft vegetable fibre packing self lubricated. Each strand of this packing is specially impregnated with additives alongwith break-in lubricant having the property of self lubrication and media repelling action. This packing is best suited to seal glands of pumps, valves, handling condensates, demineralised water and for cold and hot hydraulic applications.
3116	130°	A fine natural fibre braided packing impregnated with lubricants and graphite recommended for use on reciprocating and rotary pumps, valve spindles, refrigeration machinery and compressors. The packing presents a smooth surface that will not score shaft or sleeves because the soft fibre constantly absorbs the liquid being pumped and maintains a soft and pliable running face on the shaft.
600 'A' Steam	280°	An asbestos proofed semi-metallic packing with strips of white metal intermittent layers embedded. Used on steam expansion glands, marine engines, compressors, pumps, winches and hoists. A special high pressure medium temperature packing for ships and ship building industry, sugar mills, etc.
143 Metaflex A	560°	Aluminium foil, crimped under mechanical process with high grade lubricants, sealed in layers and folds built around asbestos or non-asbestos rovings. The packing lacks resilience but permits compressibility. Used for high peripheral speeds on rotary crude oil pumps, petroleum distillates, steam compressors, turbines, hot oil valves, brine, hydrocarbons etc. Shafts should be of 500 brinell hardness or over.
146 Metaflex L	300°	A soft white metal foil anti-frictional packing similar in construction as above for high peripheral speed. The packing is soft enough to present the shaft with a bearing alloy that reduces scoring. Recommended for fuel and crude oil, fresh or salt water refrigerator pumps, air compressors, abrasives, crystallizing or congealing liquids such as sugar, asphalt and medium temperatue slurries. It is also used as anti extrusion rings in combination with regular braided soft packings.
789 C Ammonia	130°	A soft flexible laminated proofed fabric packing impregnated with lubricants which reduce friction and shaft wear to a minimum. Used extensively in ammonia and refrigerating pumps, compressors and water service.
777 Auto Lip	130°	A fine fabric composition precision packing with a lip section for automatic self sealing service on accumulators, press rams, cranes and reciprocating rods under heavy duty hydraulic application.
778 Auto Lip Metallic	130°	A packing similar in construction as above but with white metal pegs embedded on rod surface increasing bearing property. Not suited for non-ferrous soft metal rods.
714 Oelit	130°	A proofed fabric packing with synthetic compounds to resist service conditions of oils, petroleum distillates, solvents and hydrocarbons.

# SPITMAAN

**BELKA PACKINGS :** Belka is a braided form of packing manufactured in size 3, 4 and 5mm square or round section in all different styles of packings according to service conditions with certain exceptions. It is specially designed for use in stuffing boxes, accurate small glands and valves. Supplied on plastic spools.

**PACKING SETS & RINGS :** Accurately pre-formed rings specially designed and custom built whether open or split are preferable on the basis of overall economy, simple and rapid installation, no cuffing to size, good seal performance and long life.

**GRAFSEAL :** A new type of 99.9% pure graphite material without any additives. An excellent packing for thermic fluid application, it is radiation resistant, self lubricating and it is recommended for gasket, preformed rings for glands of valves and pumps at extremely high temperature. PH 0 - 14.

**FLEX-O-SEAL :** This is a universal joint gasket material manufactured out of 100% pure PTFE, very spongy, suitable for all flanges. This material is also manufactured in the form of round ropes for valve gland applications, is resistant to high pressure and is non-toxic. An ideal sealing material for petroleum refining companies, paper mills, chemical plants, glass-lined vessels, heat exchangers, pumps and compressors. PH 0 - 14.

**PTFE PRODUCTS :** PTFE (POLYTETRAFLUOROETHYLENE) is an inert and non-toxic material. It has extreme resistance to chemical attack, excellent dielectric properties, a wide working temperature and a remarkably low coefficient of friction. PTFE fabrications, either alone or with asbestos or certain special synthetic fibre, have proved to be most successful and important components for general industrial purposes. The products manufactured from this material are too wide and you may find numerous of them in a special catalogue which will be available on request.

**FILLED PTFE :** Filled grades have become firmly established Engineering Plastics with increasing experience of their use in wide range of scientific applications. The common fillers are Carbon, Graphite, Glass, Bronze plus Molybdenum Disulphide. The reinforcing agents improve substantially resistance to wear, creep, increases thermal and electrical conductivity and reduces thermal expansion and safely used as Gaskets, Valve Seals, Bearings, Dynamic Seals and for Compression Rings.

**PTFE LINED PIPES & FITTINGS :** Most economical long lasting and quality product manufactured by extrusion process technology for chemical process industry where protection against hazardous material frequent replacement of costly pipes due to corrosion is eliminated and environmental pollution is avoided. Pipes and fittings upto 700 mm nominal bore. Bellows upto 1200 mm bore and various other products or ball valves, check valves are manufactured for various temperatures and pressure.

*Detailed catalogue will be available on request*

**PTFE THREAD SEALANT TAPE :** It is virtually a univeral sealing material which can be used in pipes and joints as thread sealant to resist acids, solvent, oils etc.

**CHEVRON O U V RINGS & SETS :** Sets of 'V' Shaped rings together with header and gland rings made to specifications from variety of materials including PTFE for sealing on all Hydraulics, Steam, Air, Gases etc.

Information supplied in this catalogue, is based on our general experience and 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.

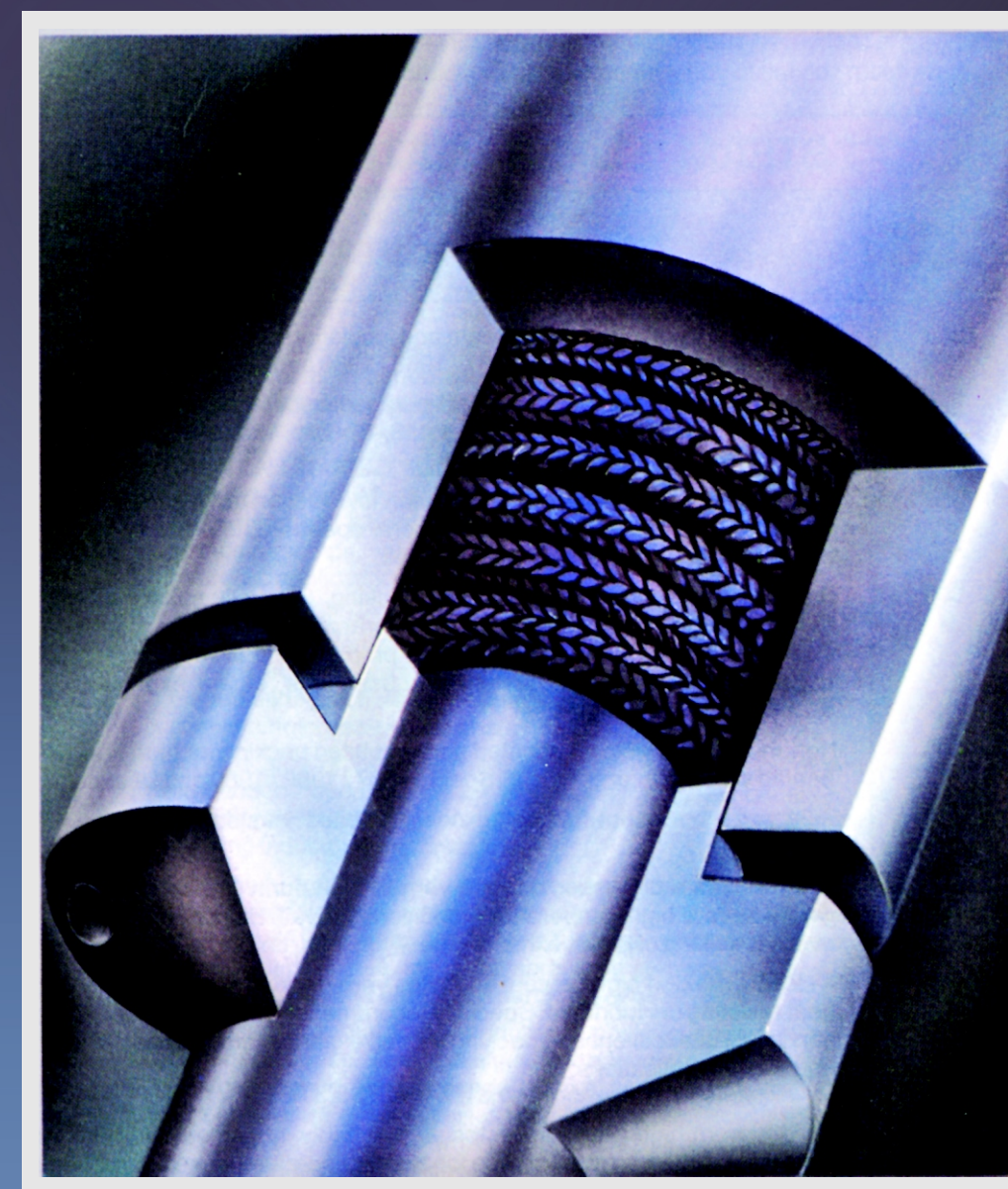
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# SPITMAAN



**MECHANICAL PACKINGS  
AND  
FLUID SEALANTS**



OIL & SOLVENTS, ACID, ALKALES AND CHEMICALS		
Style No. "SPITMAAN"	Temperature (Centigrade)	Service Recommendation
38	-200° to +600°	An interbraid carbon filament high temperature resistant packing with low friction characteristics for sealing against boiler feed pumps, high temperature high pressure valves, condensates, dryers, against non-oxidising mineral acids, fuel oils, thermic fluids, petroleum products, steam and water. This packing has excellent thermal dissipation and self lubricating properties. PH 1 - 14.
40	-200° to +950°	Same as above, but reinforced with inconel wire. The heat resistance and conductivity property enables it to be used under arduous conditions. The corrosion resistant wire reinforcement provides the packing to withstand high pressures. An ideal packing for super heated high pressure control valves especially when die formed, apart from other common industrial applications. PH 1 - 12
66	650°	A 100% pure graphite fibre packing treated with special high temperature lubricant to prevent seepage through the packing. This packing is self lubricating. It eliminates shaft wear because of graphite fibre which has low co-efficient of expansion, high heat conductivity and high temperature resistance. A premium service packing to withstand against acids, alkalis, oils, solvents, steam, fuel oil, hot tar pumps and hydrocarbons. It is universally being used by maintenance technicians to seal the most demanding applications in valves and pumps. PH 0 - 14.
166	-200° to +300°	A combination of synthetic graphite fibre with specially treated PTFE fibre. This packing is widely used in chemical and petrochemical installations for oils, degreasing fluids, concentrated acids, corrosive gases, for resistance at high speeds. PH 0 - 14.
174	-200° to +300°	A most advanced technology packing. A special DUPLEX BRAIDED construction made from synthetic aramid fibre as strong as steel and most flexible, Safely recommended for pumping granular and viscous fluids, even under high pressure condition. This packing is suitable for solvents, abrasive slurries, fuel oil, high pressure dozing pumps, mild acids and alkalis. A most effective packing for refinery, high pressure water injection system and as an anti-extrusion packing. PH 3 - 12.
172	-200° to +280°	This is a cross braided combination packing having pure PTFE fibre with special high pressure resistant fibre filament yarn incorporated in it. This packing is most suitable to all fluids and corrosive chemicals. It has exceptionally good dimensional stability, creep resistance and is non-toxic. Recommended for dairies, food and pharmaceutical industries, refineries and fertilizer plants. This packing can withstand high pressure conditons in both rotary and reciprocating applications. PH 2 - 12.
176	-200° to +300°	A high quality combination packing incorporated with graphite/PTFE fibres and special synthetic fibre to give additional reinforcement of sliding surface and heat dissipation property. It is most suited in centrifugal and reciprocating pumps with high pressure and sliding velocity for abrasive media. It resists hot water, oil, gases, greases, liquid ammonia and carbamate solution under high pressure conditions. PH 3 - 12.

OIL & SOLVENTS, ACID, ALKALES AND CHEMICALS		
Style No. "SPITMAAN"	Temperature (Centigrade)	Service Recommendation
1500 SOLVA	425°	Asbestos packing manufactured from high grade asbestos yarn impregnated with oil resisting synthetic compound by a controlled process during which each strand is treated with fine graphite and a special grade of lubricant suited for hot and cold oils, solvents, aromatic hydrocarbons, petroleum distillates and oil refinery services. <i>Please specify when the rod or shaft is STAINLESS STEEL</i>
1513	500°	Asbestos-reinforced brass wire packing treated with oil resisting synthetic compound having suitable lubricant. Incorporation of brass wire improves strength and anti-friction properties. Best suited for petrochemical applications under high pressure conditions. <i>Please indicate specifically when the rod is STAINLESS STEEL.</i>
1490	300°	Special grade of asbestos DUPLEX BRAIDED packing suitably lubricated and treated with graphite to withstand caustic liquors, including caustic potash, soda, lime, ammonia and sulphides. An ideal packing for paper mill applications. PH 4 - 12
1094	-150° to +300°	High grade asbestos fibre yarn DUPLEX BRAIDED packing impregnated with special PTFE suspensoid for severe caustic and other corrosive chemical, solvents, oils and petroleum byproducts and oxygen service. PH 2 - 12.
1063	-150° to +300°	A combination packing with specially selected fluoropolymer PTFE fibre and chemical resistant inorganic fibre yarn for resisting against corrosive medium and concentrated acids. This construction improves the strength and chemical inertness of the packing. This combination packing is further treated with PTFE suspensoid. This packing can be used against acids, chlorine, in valves, pumps having chrome plated or stainless steel shafts. PH 2 - 14.
1003	-150° to +300°	A combination packing concentrically braided with special compound to resist hot concentrated alkalis, organic and dilute acids. A very special low friction packing recommended to be used with high speed pumps, agitator shafts, oils, solvents, ammonia solution, concentrated caustics and ketones. PH 2 - 12.
1	-200° to +290°	A super fluorocarbon fibre interbraided packing. This packing is developed for pumps, valves, mixers, agitators involving applications for highly corrosive chemicals, oxygen service, acids and alkalis. PH 0-14.
2	-200° to +290°	A 100% pure PTFE packing impregnated with a special chemically inert suspensoid. A good packing for control valves, pumps handling corrosive gases, ammonia, foodsuffs and pharmaceuticals. It is an ideal packing for sealing dryers, mixers and agitators. Due to high tensile strength of the fibre, this packing is best suited to be used in high pressure valves and reciprocating pump applications. PH 0 - 14.
3	-200° to +290°	A PTFE fibrous packing having special DUPLEX BRAID to increase dimensional stability treated with inert high temperature lubricant. This packing is safe, non-toxic and flexible for use on pumps, for concentrated acids, alkalis, oils, solvents and gases. PH 0-14
23	-250° to +300°	A DUPLEX plaited flexible combination packing having super grade fluoropolymer intimately treated with graphite to enhance lubricity and heat dissipation. This packing is self lubricating mechanically strong and widely used in chemicals, petrochemicals, power plants, paper, pulp and food industries. PH 0 - 14.
36	-240° to +300°	A graphite bonded fluoropolymer fibre packing DUPLEX BRAIDED to improve thermal conductivity and lubricity for maintaining extremely low friction, chemical resistance and reduces maintenance cost. Best suited to valve stems, centrifugal pumps, woodpulp, Caustics, oils, solvents, acids and strong chemicals. This packing is widely used in Refineries, Petrochemicals and Fertilizer Industries. PH 0 - 14.

## MECHANICAL PACKING INDUSTRIES PVT. LTD.

### INTRODUCTION

Advanced developments in all areas of industry demands high-tech Packings. Through continuous research and experience of more than 35 years with most modern technique and materials, we are able to master all the fields of application while giving highest functional reliability. Stuffing Box packings are renowned quality products and embraces the entire spectrum from consultancy to problem solving to suit your particular application.

# SPITMAAN

STEAM, SUPER HEATED STEAM		
Style No. "SPITMAAN"	Temperature (Centigrade)	Service Recommendation
1000	350°	Asbestos dry plaited general steam and insulation packing for hot gases, oven, autoclaves etc. conforming to IS Specn. 4687 / 1968 / 1980 and DGS & D Specifications.
1100	325°	Lubricated and graphited, general-purpose asbestos packing for Glands for medium pressure conditions conforming to IS Specn. 4687 / 1968 / 1980 and DGS & D Specifications.
1200	350°	Incorporated with white metal wire for low friction and greater mechanical durability. Suitable for rotary shafts with peripheral speeds upto 1750 ft/ min. Recommended for steam, hot water, weak acids and alkalis.
1300	500°	Brass wire reinforced asbestos yarn packing. Specially suited to high speed rotary and reciprocating shafts even at higher temperature and pressure. Incorporation of brass wire improves its strength and anti-friction properties. It is recommended for saturated and super heated steam, hot water, air, gases, oils, steam expansion glands, rotary and reciprocating equipments.
1800	490°	Non-metallic asbestos lubricated and graphited packing for high pressure saturated super heated steam conforming to IS Specn. 4687 / 1968 / 1980 and DGS & D Specifications.
1850	490°	Same as above, but lubricated non graphited version meant for STAINLESS STEEL RODS.
1900	540°	Cryosile white dry asbestos fibre yarn of high purity braided packing non-metallic used where severe high temperature conditions prevail. Best suited for expansion joints, door ovens, caulking of joints, exhaust pipe wrappings, ductings etc.
1910	540°	A closely braided high content asbestos yarn packing non--metallic lubricated with special heat resisting dry lubricant. Specially recommended for high pressure superheated steam services. An excellent soft packing for valve glands, guage glass fittings, turbines, boilers and similar applications. <i>Please state when spindle / rod is STAINLESS STEEL</i>
1916	815°	Braided from high grade asbestos yarn suitably lubricated and reinforced with stainless steel wire. This is an ideal choice for high temperature valve application and is suitable for service with steam, butane and propane gases, oil vapour, furnace oil etc. <i>Please state when spindle / rod is STAINLESS STEEL</i>
1933	500°	A popular packing made from asbestos fibre yarn reinforced with copper wire and suitable lubricants to withstand high pressure and temperature for steam valve. <i>Please state when rod / spindle is STAINLESS STEEL</i>
1960	680°	A specially developed braided packing for super sealing jobs made from high grade asbestos fibre yarn reinforced with inconel wire and suitably lubricated. It will function most effectively against super sealing jobs on valve stems in power plants and oil refineries. A well recommended packing for control valves at high pressures and temperatures and various other applications. <i>Please specify when rod/ spindle is STAINLESS STEEL</i>