Europolit Ltd. sp. z o.o.

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TÜV SÜD ISO 9001

Packings

for pumps and valves

EPB

The packing is braided with gentle yarn made of pure PTFE of fibrous structure without silicone oil addition therefore it can be used in contact with food and potable water, i.e. where silicone-based impregnants are inadmissible. High chemical resistance even to very aggressive media is the most important advantage of this packing. It is recommended for use in impeller pumps, piston pumps and in fittings for food, chemical and pharmaceutical industries as well as for potable water treatment plants. It is resistant to water, steam, oils, fuels, solvents, acids and alkalies except for strong oxidants.

T °C	-100: +280		
P bar	10	150	250
V m/s	10	2	1
pH	0-14		
dimensions	4 mm - 30 mm		

EPB/O

The packing is braided with yarn made of pure PTFE of fibrous structure that is soaked with silicone oil based impregnant. It is characterized by very high chemical resistance including the most caustic media such as concentrated acids and alkalies (and also oxidizing acids). The packing is recommended for use in impeller pumps, piston pumps and fittings in chemical and pharmaceutical industries. It is resistant to water, steam, oils, fuels, solvents, acids and alkalies.

T °C	-100: +280		
P bar	10	70	20
V m/s	10	2	1
pH	0-14		
dimensions	4 mm - 30 mm		

EPG

The packing is made of yarn of fibrous PTFE filled with graphite and soaked with silicone oil. Due to such a composition, the braided packing is not susceptible to squeezing out of gland chamber and it adapts itself to a chamber shape. Low coefficient of friction and high thermal conductivity protect against packing overheating under the influence of high revolutions per minute of the pump shaft. The packing is recommended for use in pump and fittings glands and in contact with water, steam, oils, solvents, salts, acids and alkalies except for very strong oxidants. It is the most popular and universal PTFE packing.

T °C	-200: +280		
P bar	30	150	150
V m/s	15	2	2
pH	0-14		
dimensions	4 mm - 30 mm		

EPS

This packing is braided with PTFE yarn of the highest quality. The yarn is made of perfectly defibered PTFE filled with graphite and soaked with trace amount of silicone. Due to the sophisticated technology and reliable quality of the yarn, the packing meets the highest requirements and is used in glands of high-speed pumps and where the sealing quality is essential. EPS packing is the highest quality packing for high-speed impeller pumps in all of sectors of industry and economy. Due to its high resistance to such media as water, steam, oils, fuels, acids and alkalies, the packing is widely used in chemical and petrochemical industries, power engineering, mining, public utilities and in pharmaceutical, food and sugar industries.

T °C	-200: +280		
P bar	20	200	300
V m/s	25	2	2
pH	0-14		
dimensions	4 mm - 30 mm		

EPA/Z

The packing makes use of excellent properties of PTFE yarn of the highest quality and well known mechanical strength of aramid. A special weave allows to strengthen the packing with aramid uniformly across the whole section. Due to uniform interleaving of aramid and PTFE threads, the packing is characterized by low coefficient of friction and high mechanical strength and it lays well in a chamber. The packing is used in impeller pumps and other devices working in environment of water, hot water, saline solutions, the majority of acids and alkalies, fuels, oils, solvents and suspended solids in these media. The main receivers are: chemical, fertilizer and food industries.

T °C	-200: +280		
P bar	30	200	300
V m/s	25	5	2
pH	2-12		
dimensions	6 mm - 30 mm		

- packing for valves

- universal packing for pumps and valves

EPA/R

The packing makes use of excellent properties of PTFE yarn filled with graphite and silicone oil as well as the well known mechanical strength of aramid. A special weave allows to strengthen the packing corners with aramid without worsening motion properties of PTFE. The packing has been developed for pump and fittings users who encounter some problems with high-abrasive media. This packing operates well also in piston pumps where to-and-fro motion quickly damages conventional seals. Due to its chemical resistance, the packing can be used for water, oils, fuels, solvents and also acids and alkalies of medium strength.

T °C	-100: +280		
P. bar	50	200	300
V m/s	25	5	2
pH	2-12		
dimensions	6 mm - 30 mm		

EPB/O+AR

The packing is braided with yarn made of pure PTFE of fibrous structure that is soaked with silicone oil based impregnant and strengthened in the corners with the aramid. Aramid increases packing's durability without worsening motion properties of PTFE. The packing has been developed for high-speed plunger pumps in contact with high-abrasive medium. This packing operates well also in piston pumps where to-and-fro motion quickly damages conventional PTFE ropes. It is resistant to water, steam, oils, fuels, solvents, acids and alkalies.

T °C	-100: +280		
P. bar	30	100	200
V m/s	10	2	1
pH	2-12		
dimensions	6 mm - 30 mm		

EGW/I

The packing is made of yarn consisting of cotton thread coated with pure expanded graphite (carbon content above 98%). Due to its thermal and chemical resistance, self-lubricating properties and good heat conduction, the expanded graphite is fit very well for high-temperature braided packings. Replacement of inconel reinforcement with the cotton thread decreases mechanical parameters at high temperatures but the packing lays more softly in a gland and its coefficient of friction is lower. Additionally, the packing is enriched with high quality corrosion inhibitor. The graphite packing is used in impeller pumps of high speed up to 25 m/s, mainly in chemical, petrochemical and power industry.

T °C	-240: +450		
P. bar	40	–	300
V m/s	25	–	2
pH	0-14		
dimensions	4 mm - 50 mm		

EGZ/I

The packing is made of yarn of expanded mineral graphite reinforced with thin inconel wire. Reinforcement improves the mechanical strength of packing and protects it against squeezing out into the gap between the shaft or spindle and the gland housing. Additionally, the packing is enriched with high quality corrosion inhibitor. The graphite packing is used in high-temperature applications in valves in contact with steam, oils, acids except for strong oxidants, mainly in petrochemical and power industry.

T °C	-240: +600		
P. bar	–	–	320
V m/s	–	–	2
pH	0-14		
dimensions	4 mm - 50 mm		

EGP

The packing is made of yarn consisting of cotton thread coated with pure expanded graphite and impregnated with PTFE based dispersion. Impregnation with PTFE decreases significantly working temperature of the packing, however, it improves significantly its coefficient of friction and assembly in pump glands, because the packing lays in a gland more softly. The packing is used in pump and valve glands in many sectors of the industry, for example in chemical, power and paper industry.

T °C	-100: +280		
P.bar	25	–	150
V m/s	20	–	2
pH	0-14		
dimensions	6 mm - 30 mm		

- packing for valves
- universal packing for pumps and valves

Commercial packages available: 4x4 mm – 5x5 mm – min. 1 kg; 6x6 mm – 16x16 mm – min. 2 kg; above 16x16 mm – min. 5kg

EGZ/RR

The high-performance packing is braided from yarn of natural, expanded graphite, with each thread braided with inconel mesh with very high thermal and mechanical strength. This packing is mainly used in stop valves but also in packages as a closing packing. Additionally, the packing is enriched with the highest quality corrosion inhibitor. Thanks to its extremely high chemical, temperature and mechanical resistance the packing can be used in the most responsible applications in many sectors of industry, first of all in petrochemical and power industry.

T °C	-240: +600		
P. bar	–	–	500
V m/s	–	–	1
pH	0-14		
dimensions	6 mm - 25 mm		

EWW/I and EWZ/I

The packing is braided with the highest quality pure carbon yarn with very high thermal and mechanical strength. Additionally, the packing is enriched with the graphite-based impregnant and corrosion inhibitor. It is characterized by excellent flexibility, easy machining and forming and it does not cause adhesive and corrosive effects. EWZ/I packing is further reinforced with inconel wire and is most frequently used as a packing closing graphite rings. It is used mainly in the chemical, energy and paper industry.

T °C	-240: +450		
P.bar	50	150	300*
V m/s	20	2	1*
pH	0-14		
dimensions	4 mm - 30 mm		

EAP

Packing is braided from high quality aramid yarn saturated in the production process with PTFE and paraffin oil. The packing is characterized by high mechanical and chemical resistance and extreme friction resistance. EAP is a high quality packing for high-pressure pumps and fittings and it is used in all sectors of industry. It is recommended particularly where contact with very abrasive materials, e.g. sand slurry, etc., is necessary. Due to its high resistance to water, steam, oils, fuels, acids and alkalies, the packing is used widely in chemical and petrochemical industries, power engineering and mining.

T °C	-100: +280		
P.bar	35	200	250
V m/s	20	2	2
pH	2-12		
dimensions	6 mm - 30 mm		

EAP/G

The packing is braided with aramid yarn with filament fibre, impregnated with high temperature grease containing fine-grained graphite and other, specially selected additives. EAP/G is a packing with unique technical properties. Bronze powder and graphite carry away the excess heat and provide excellent slide minimizing frictional resistance. The packing is especially recommended for pumps and fittings exposed to abrasive materials such as sand slurry, waste water and other materials abrasive to the sealant. It is designed for operation in high pressures in contact with water, steam, saline solutions, medium strength acids, bases and organic agents such as fuels, oils, greases and solvents.

T °C	-100: +280		
P.bar	50	200	300
V m/s	25	2	2
pH	2-12		
dimensions	6 mm - 30 mm		

EKP

The packing is braided with the highest quality synthetic yarn of KYNOL® type impregnated with PTFE and non-silicone lubricant. Due to the impregnation, the rope is resistant to mechanical and chemical factors and exceptionally low friction factor considerably lowers the wear of co-operating parts. EAP is a high quality packing for pumps and fittings and it is used in all sectors of industry. It is recommended particularly in the contact with very abrasive materials such as sand slurry, waste water and other materials abrasive to packing. Due to its high resistance to water, steam, oils, fuels, acids and alkalies, the packing is used widely in paper, chemical and petrochemical industries and power engineering.

T °C	-100: +280		
P.bar	70	120	150
V m/s	20	2	2
pH	1-13		
dimensions	6 mm - 30 mm		

- packing for valves

- universal packing for pumps and valves

ERP

This packing is braided with natural ramie (China grass) yarn and soaked, thread by thread, during stranding, with special PTFE- based impregnant. This impregnant performs two basic functions: it decreases coefficient of friction and increases chemical resistance of the packing. Mechanical strength and durability of the ramie fibre are much higher than these of cotton. It is recommended for use in glands of pumps and fittings in all industrial sectors and in public utilities. It can work in contact with water, oils, fuels, greases and solvents. It is resistant to aqueous solutions of salts, weak acids and alkalies.

T °C	-30: +120		
P. bar	20	100	100
V m/s	12	2	2
pH	5-11		
dimensions	6 mm - 50 mm		

EBP

The packing is braided with natural cotton yarn impregnated with PTFE dispersion during stranding process. Gentle cotton fibres bind themselves with impregnant very well so the packing is very compact and fits well into chambers sealed. PTFE impregnation increases significantly chemical resistance of the packing. The packing is recommended to be used in pump glands and fittings for systems in contact with water, fuels, oils, weak acids and alkalies.

T °C	-30: +120		
P. bar	20	25	35
V m/s	10	2	2
pH	5-11		
dimensions	6 mm - 50 mm		

EBŁ and EBG

The packing is braided with cotton yarn and then it is hot impregnated with special impregnant. It is a popular and very economical packing, which has been used in industries for decades. It is characterized by good flexibility. It is resistant to water, diluted acids and alkalies, organic compounds, oils and greases at temperature up to 120°C. It is recommended to be used for piston and impeller pumps as well as for fittings, mainly in mining. EBŁ packing is impregnated with grease composition enriched with talc while in EBG packing talc is replaced with fine-grained graphite. Operational parameters of both versions are identical.

T °C	-30: +120		
P. bar	10	20	60
V m/s	5	1,5	2
pH	5-11		
dimensions	6 mm - 50 mm		

e-PTFE

Sealing tapes of e-PTFE type are manufactured from pure expanded PTFE of a special fibre structure. This material is characterized by remarkable flexibility and full chemical resistance within pH range 0-14. To facilitate the installation, tapes are equipped with self-adhesive layer secured with protective paper. They are resistant to water, steam, oils, fuels, solvents, acids and alkalies except for strong oxidants. They are used to seal flange connections of manholes, covers, valves, fittings, heat exchangers, chemical apparatus, ventilation systems, etc.

* available on our website www.europolit.pl

T °C	-200: +270		
P. bar	–	–	200
V m/s	–	–	–
pH	0-14		
dimensions	according to a separate table *		

TGW/P and TGZ/P

Sealing tapes of TGW/P and TGZ/P are manufactured from expanded mineral graphite by press moulding in a special forming machine. To facilitate the installation, tapes are equipped with self-adhesive layer secured with protective paper. They are characterized by good flexibility, compression resistance, thermal stability as well as very high chemical resistance. TGW version is made of cotton thread coated with yarn while TGZ is reinforced with stainless steel wire. They are used as static seals for operation with the majority of media where, apart from chemicals, very high temperature of medium is present.

* available on our website www.europolit.pl

T °C	-240: +450 (+600)**		
P. bar	–	–	300
V m/s	–	–	–
pH	0-14		
dimensions	according to a separate table *		

** TGZ-P version

- packing for valves
- universal packing for pumps and valves

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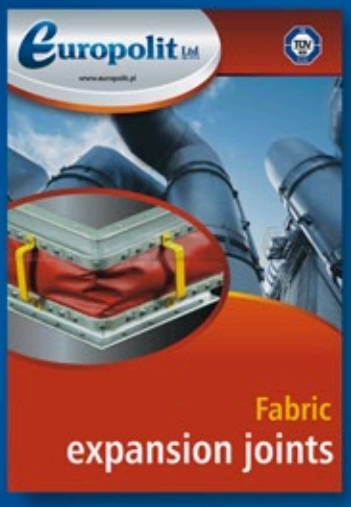

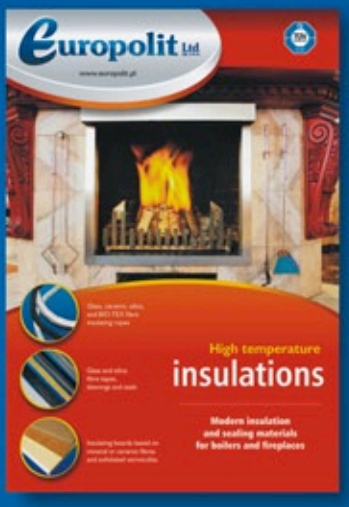

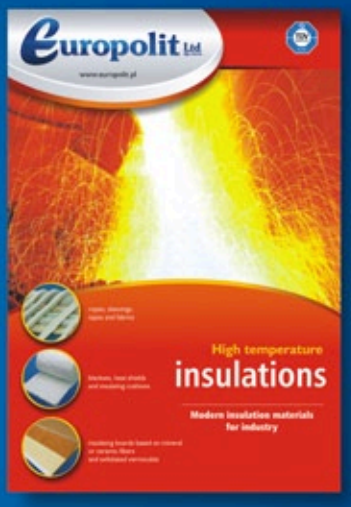

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Issue 10/2009