EGP Graphite packing impregnated with PTFE

Characteristics

The packing is made of yarn consisting of cotton thread coated with pure expanded graphite and impregnated with PTFE dispersion. Due to its thermal and chemical resistance, self-lubricating properties and good heat conduction, the expanded graphite is fit very well for braided packings for both impeller pumps and fittings. Impregnation with PTFE decreases significantly working temperature of the packing however it improves significantly its coefficient of friction and assembly in pump glands. The packing lays in a gland more softly.

Application

The packing is used in pump and valve glands in many sectors of the industry, for example in:
- chemical industry
- power industry
- paper industry

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 25**
Carbon content in graphite [%]	**> 98,9**
Density g/cm^3	**1,15~1,35**
Compressibility [%]	**> 15**
Maximum working temperature [°C]	**280.**
Impeller pumps	**p=25 bar v=20 m/s**
Fittings	**p=150 bar v=2 m/s**

EGZ/RR Graphite packing reinforced with inconel mesh

Characteristics

High-parameter packing braided with yarn of natural expanded graphite (purity above 98,9 %) and reinforced with braid made of inconel mesh of very high mechanical and thermal strength. Additionally, the packing is enriched with electrogalvanic corrosion inhibitor(fluted graphite).

Application

Due to its high chemical, temperature and mechanical resistance, the packing can be used to seal high-pressure fittings in many sectors of the industry, first of all in:
- petrochemical industry
- power plants
- refineries

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 25**
Carbon content in graphite [%]	**> 98,9**
Density g/cm^3	**1,15~1,35**
Compressibility [%]	**> 15**
Maximum working temperature [°C]	**600 in steam up to 650 °C.**
Fittings	**p=500 bar** **v=1 m/s**

EGZ Graphite packing reinforced with inconel wire

Characteristics

The packing is made of expanded pure graphite yarn reinforced with thin inconel wire. 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. Packing reinforcement with thin inconel wire improves mechanical strength of the packing and protects it against squeezing out into a slot between shaft or spindle and a gland housing. Additionally, the packing is enriched with high quality corrosion inhibitor.

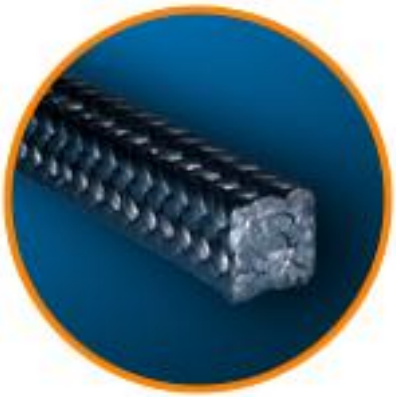
Application

The graphite packing is used in valves at very high temperatures and in contact with steam, oils, and acids except for strong oxidants as well as in:
- chemical industry – for aggressive media pumping
- power industry – for sealing of high-temperature pumps feeding the boilers
- petrochemical industry – resistance to oils and hydrocarbons

Technical data

PARAMETER	VALUE
Dimension range [mm]	**4 – 50**
Carbon content in graphite [%]	**> 98,9**
Density g/cm^3	**1,15~1,35**
Compressibility [%]	**> 15**
Maximum working temperature [°C]	**600 in oxygen-free conditions up to 2500 °C.**
Impeller pumps	**not recommended**
Fittings	**p=320 bar** **v=2 m/s**

EPS PTFE SUPER packing



Characteristics

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 it is used in glands of high-speed pumps and where the sealing quality is essential.

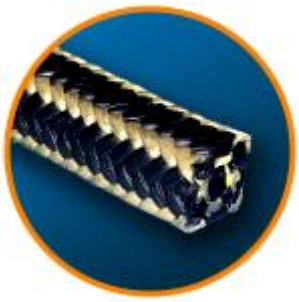
Application

PTFE SUPER is the highest quality packing for 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 as well as in pharmaceutical, food and sugar industries.

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 25**
Density g/cm^3	**1,65~1,7**
Compressibility [%]	**> 15~30**
Maximum working temperature [°C]	**280**
Impeller pumps	**p=20 bar v=20 m/s**
Piston pumps	**p=150 bar v=2 m/s**
Fittings	**p=200 bar v=2 m/s**

EPA/R PTFE packing strengthened with aramid on corners



Characteristics

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.

Application

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. It is used in chemical, fertilizer and food industries.

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 25**
Maximum working temperature [°C]	**280**
Impeller pumps	**p=30 bar v=15 m/s**
Piston pumps	**p=200 bar v=5 m/s**
Fittings	**p=300 bar v=2 m/s**

EPA/Z PTFE packing interleaved with aramid

Characteristics

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.

Application

The packing is used in impeller pumps and another devices working in environment of water, hot water, saline solutions, the most of acids and alkalies, fuels, oils, solvents and suspended solids in these media. The main receivers are: chemical, fertilizer and food industries.

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 25**
Maximum working temperature [°C]	**280**
Impeller pumps	**p=30 bar v=15 m/s**
Piston pumps	**p=200 bar v=5 m/s**
Fittings	**p=300 bar v=2 m/s**

EPB/O PTFE packing impregnated with silicone oil

Characteristics

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).

Application

The packing is recommended to be used in impeller pumps, piston pumps and fittings in chemical and pharmaceutical industries. It is resistant to water, steam, oils, fuels, solvents, acids and alkalies.

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 25**
Maximum working temperature [°C]	**280**
Impeller pumps	**p=10 bar v=10 m/s**
Piston pumps	**p=20 bar v=2 m/s**
Fittings	**p=20 bar v=1 m/s**

EPG PTFE packing filled with graphite

Characteristics

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 to a large extent 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 similar to these made of GFO type yarns.

Application

The packing id recommended to be used 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 PTFE packing. It can be used in many sectors of industry such as chemical, paper, dye and fertilizer industries.

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 30**
Maximum working temperature [°C]	**290**
Impeller pumps	**p=30 bar v=25 m/s**
Piston pumps	**p=150 bar v=2 m/s**
Fittings	**p=150 bar v=2 m/s**

EPG+A PTFE packing filled with graphite and aramid

Characteristics

The packing is braided with PTFE yarn filled with graphite and twisted with aramid fibre and additionally soaked with silicone oil. Aramid provides much more mechanical strength of the packing without decreasing of the low coefficient of friction and flexibility.

Application

The packing is recommended for use in high-pressure pump and fittings glands and in contact with water, steam, oils, solvents, salts, acids and alkalies except for very strong oxidants. It can be used in many sectors of industry but the most often in chemical, paper, dye and fertilizer industries.

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 25**
Maximum working temperature [°C]	**280**
Impeller pumps	**p=20 bar v=20 m/s**
Piston pumps	**p=200 bar v=5 m/s**
Fittings	**p=250 bar v=2 m/s**

EAP Aramid packing impregnated with PTFE

Characteristics

The packing is braided with high quality aramid yarn that is very resistant both mechanically and chemically. Due to impregnation with PTFE dispersion carried out during stranding process, the free space among fibres is filled very well and the coefficient of friction of the packing is reduced significantly.

Application

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.

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 25**
Maximum working temperature [°C]	**280**
Impeller pumps	**p=15 bar v=20 m/s**
Piston pumps	**p=120 bar v=2 m/s**
Fittings	**p=120 bar v=2 m/s**

EGW Graphite packing on cotton pilot

Characteristics

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. Although 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.

Application

The graphite packing is used in impeller pumps of high speed up to 25 m/s as well as in
– chemical industry – for aggressive media pumping
– power industry – for sealing of high-temperature pumps feeding the boilers
– petrochemical industry – resistance to oils and hydrocarbons

Technical data

PARAMETER	VALUE
Dimension range [mm]	**4 – 50**
Carbon content in graphite [%]	**> 98,9**
Density g/cm^3	**1,15~1,35**
Compressibility [%]	**> 15**
Maximum working temperature [°C]	**450 in oxygen-free conditions 2500 °C.**
Impeller pumps	**p=40 bar** **v=40 m/s**
Fittings	**p=200 bar** **v=2 m/s**

EBG Cotton packing impregnated with graphite

Charcteristics

The packing is braided with cotton yarn and then it is hot impregnated with special impregnant and graphited. This is a popular and economical packing in common use. It is characterized by good flexibility. It is resistant to water, dilute acids and alkalies, organic compounds, oils and greases at temperature up to 120 °C.

Application

It is recommended to be used for piston and impeller pumps as well as for fittingd used in textile, chemical and mining industries.

Technical data

PARAMETER	VALUE
Dimension range [mm]	**6 – 50**
Maximum working temperature [°C]	**120**
Impeller pumps	**p=16 bar v=10 m/s**
Fittings	**p=60 bar v=2 m/s**

Europolit Ltd.
Sp. z o. o.

EKP/G Kynol® fiber impregnated packing

Braided packing for pumps and valves

Characteristics

The packing is braided with high quality novoloid fiber yarn (micrometers)that is resistant both mechanically and chemically. Due to impregnation with PTFE dispersion and white graphite carried out during stranding process, the free space among fibers is filled very well and the coefficient of friction of the packing is reduced significantly. The packing is very flexible and it has high extrusion resistance.

Application

EKP/G 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.

Technical data

PARAMETER	VALUE
Dimension range [mm]	6 – 30
Maximum working temperature [°C]	260
Impeller pumps	p=25 bar v=15 m/s
Piston pumps	p=100 bar v=3 m/s
Fittings	p=100 bar v=2 m/s