Stuffing Box Packings
for Dynamically Sealing Pump Shafts, Valve Spindles, Plungers, Agitators, Fans etc.

Static Seals
for Flanges and Flange-type Connections, Lids, Covers etc.
for all Sectors of Industry.
### Stuffing box packings

#### Buratex

<table>
<thead>
<tr>
<th>Buratex</th>
<th>4002</th>
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<tbody>
<tr>
<td>For sealing stem tubes and rudder ports, with seawater resistant impregnation. The non-plus marine packing. Flexible, easy to handle, unmatchable due to its special rod impregnation.</td>
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#### Buraflex®

<table>
<thead>
<tr>
<th>Buraflex®</th>
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<tr>
<td>For pumps, refiners, filters, valves in the brewing and beverages industry, ship building, etc. Especially resistant to abrasive media. Released by the FMPA, Stuttgart for use in the food stuffs and pharmaceutical industries.</td>
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### Stock dimensions

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#### Burasoft

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<tr>
<td>Flexible PTFE packing with good emergency running properties. For universal applications in other special applications in the chemical, foodstuffs and pharmaceutical industries.</td>
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### Stock dimensions

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#### Hot water

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<th>Hot water</th>
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<tr>
<td>Universal, wear-resistant and gentle on shaft surfaces. Without cooling it can be used with hot water up to 160 °C, with cooling it can be used with hot water up to 200 °C. Particularly ideal for hot water, condensate and main cool- lant pumps (not illustrated).</td>
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#### Thermoflon®

<table>
<thead>
<tr>
<th>Thermoflon®</th>
<th>6230*</th>
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<tr>
<td>Extremely wide range of uses in pumps (unclosed operation possible with hot water up to 180 °C), agitators, mixers and kneaders for all types of industry. Long life with good operating efficiency. Gentle treatment of shafts.</td>
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#### Thermoflon®-SL

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<th>6230/L*</th>
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<tbody>
<tr>
<td>Extremely wide field of use in all branches of industry. With hot water up to 140 °C non-cooled at max. 10 m/s and max. 16 bar. Extremely low coefficient of friction, no slip-stick effect. High cross-sectional density.</td>
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#### Packing extractor 9611

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<th>Packing extractor 9611</th>
<th>6335*</th>
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<tbody>
<tr>
<td>A special tool, which is both popular and effective, for removing packings from pumps, agitators, valves, fittings, etc. A non-kinking flexible shaft, which will not stretch or compress under loads, facilitates the extraction of packings from even the least accessible stuffing box. Our Packing Extractors have been approved many thousand times and they reduce the time required to change a packing to a fraction of the time previously needed. Available in 4 different sizes and lengths, individually or as set:</td>
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* Approximate values (approx.)
Packing ring cutter for valves 9616
Special tool for cutting packing rings with a slanted cut for valves, mixers, kneaders (max. length 460 mm).

Description
High-quality, smooth synthetic endless aramid fibres with PTFE impregnation and added lubricant. Extremely wear-resistant.

Stock dimensions
\[
\begin{array}{|c|c|c|c|c|}
\hline
\text{Stock} & \text{I} \text{/inch} & \text{m/kg (approx.)} & \text{lf/ib (approx.)} \\
\hline
6 & 5/16” & 18.0 & 23.5 \\
8 & 5/16” & 11.0 & 14.4 \\
10 & 5/16” & 7.0 & 9.4 \\
12 & 5/16” & 4.8 & 6.1 \\
14 & 9/32” & 4.3 & 5.6 \\
16 & 5/32” & 3.1 & 4.0 \\
18 & 5/32” & 2.7 & 4.0 \\
20 & 1” & 1.75 & 2.6 \\
22 & 1” & 1.42 & 2.12 \\
\hline
\end{array}
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6 1/2” 26.0 31.5
8 5/32” 18.7 23.4
10 5/16” 13.0 16.3
12 3/8” 10.3 13.5
14 5/32” 9.3 12.9
15 9/32” 8.3 10.9
16 5/32” 5.8 8.6
18 1/2” 5.2 7.7
20 5/32” 3.3 4.9
22 1” 1.3 1.9

For centrifugal pumps at high pressure and sliding velocities, as well as abrasive media.

Description
High-quality combination of PTFE with incorporated graphite and additional reinforcement of sliding surface of aramid yarn. Good sliding velocity and thermal conductivity. Specific gravity approx. 1.5.

Technical data
Highly pure PTFE incorporated with graphite without any anti-seize or filling agents. The high thermal conductivity as compared to pure PTFE or aramid packings supports the start-up phase. No omitting, no ageing. The material is distinguished by its high stability of volume, its structural strength and the excellent cross-sectional density.

Stock dimensions
\[
\begin{array}{|c|c|c|c|c|}
\hline
\text{Stock} & \text{I} \text{/inch} & \text{m/kg (approx.)} & \text{lf/ib (approx.)} \\
\hline
5 & 5/32” & 18.7 23.4 \\
6 & 5/32” & 13.0 16.3 \\
8 & 5/32” & 9.3 12.9 \\
10 & 9/32” & 8.3 10.9 \\
12 & 5/32” & 5.8 8.6 \\
14 & 1/2” & 5.2 7.7 \\
16 & 1/2” & 3.3 4.9 \\
20 & 1” & 1.3 1.9 \\
\hline
\end{array}
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Where valves are used to prevent gaseous leakage in applications involving liquid organic materials are concerned, TA-Luft (German Clean Air Act) specifies spindle sealing by means of bellows and downstream stuffing box or the like in order to be able to ensure leakage rates of less than 0.01 m³ - m. In conjunction with the TA Luft Live Loading System, the Burgmann 9650TA1 seal set achieves leakage rates to a power of ten less than the TA-Luft tolerance limit. Please consult.

Advantages, properties
Air maintenance-free
Permanently elastic, especially suitable for hot/cold cycles
No hardening, no ageing
Partly re-useable
Excellent deformability
Permanence of resilience of ab.
10 % of preloaded graphite seal thickness
Fire safe test, short term up to +900 °C
Low temperature test up to −196 °C
High temperature stability
Electrical conductivity: short circuit
High cross-sectional density, low helium leakage, e.g. Spiral™ to 17 – 10 mbar / l/s

Technical data
Highly temperature resistant −200 °C to +550 °C (+3000 °C in reducing or inert environment)
High operating pressures, up to ab. 1000 bar according to design
Excellent chemical resistance
pH 0 – 14.

Application
In pumps for hot water, heat transfer oils, etc.
Dry-running pre-stuffing boxes, safely stuffing boxes and fans. Spindle seals in high-pressure/steam valves in power and nuclear power plants, as well as in valves of all industrial branches, such as the chemical, petro-chemical, pharmaceutical, food-stuff, paper, etc. industry.

Pre-pressed stuffing box packing rings in industrial quality (purity ≈ 98 %)

Metal-reinforced pre-pressed stuffing box rings of graphite ≈ 98 % – anti erosion rings.

Rothenauer®

Sampler®

Chemstar® L

6226/L
Universal PTFE packing, a preferred choice of the chemical industry and industry in general for valves (including high pressure duty), plungers pumps, agitators, mixers, kneaders, filters, etc. – up to approx. 2 m/s in dry-running mode.

Technical data
High cross-sectional density and structural strength. Resistant to wear.

Description
High-temperature resistant graphite- fibre packing with heat-resistant impregnation. High-cross-sectional density and structural strength. Resistant to wear.

Approvals
BAM certificate for gaseous oxygen up to 150 °C and 40 bar. >150 °C to 200 °C and 30 bar. Approved by FMPA, Stuttgart/Ger- many for the food industry.

Description
Suitable for packing universal against graphite with impregnation. Good resistance to compression and to ex- traction, high structural strength and cross-sectional density.

Rotation required, to prevent the wear of packing material. Enables an accurate installation. Packings are cut neither too long nor too short. Fast and easy handling. Enables an accurate seating of Rotatherm® rings depends on the operating pressure.

Technical data
Highly temperature resistant −200 °C to +550 °C (+3000 °C in reducing or inert environment)
High operating pressures, up to ab. 1000 bar according to design
Excellent chemical resistance
pH 0 – 14.

Application
In pumps for hot water, heat transfer oils, etc.
Dry-running pre-stuffing boxes, safely stuffing boxes and fans. Spindle seals in high-pressure/steam valves in power and nuclear power plants, as well as in valves of all industrial branches, such as the chemical, petro-chemical, pharmaceutical, food-stuff, paper, etc. industry.

Pre-pressed stuffing box packing rings in industrial quality (purity ≈ 98 %)

Metal-reinforced pre-pressed stuffing box rings of graphite ≈ 98 % – anti erosion rings.

Rotatherm®

Sampler®
Injectable Sealants

**8032/SCW**
White sealing compound on a PTFE fiber basis with high performance antiseizing agent. Specifically for abrasive media e.g. in the pulp and paper industry.

**8032/SCB**
Black sealing compound on a PTFE fiber basis with a high performance graphite-based lubricant. Its extremely good chemical resistance makes it suited to universal use in almost all industries. Suitable for pumps, mixers, kneaders, etc. but also for valves (p, = 75 bar).

**Features, advantages**
- Excellent running properties
- Very low friction values
- Optimum leakage reduction
- Reduced wear
- Outstanding adaptability to asymmetrical stuffing boxes and/or run-in shafts (no need for removal or reworking)
- Easy to use when "packing" by hand or with an injection device
- No downtime during "re-packing" with the injection device (performed while machine is running)
- Extremely economical

**Operating limits**
- Pressure p = 25 bar
- Temperature t = -100 ... +250 °C
- Sliding velocity v = 10 m/s

**Forms of delivery**
Container sizes 1 and 5 kg

**Packaging**
Black sealing compound on a PTFE fiber basis.

**Thermoflon®-TR**
For pumps up to 800 bar. Universal resistance to chemicals, high stability under pressure and good sealing action makes this packing particularly suitable for the chemical industry. For detailed description, see Valve Packings. For further packings suitable for use in plunger pumps, see table on the right.

**Injection of the sealing compound during operation with the Burgmann injection device (Art. No. 8032 HHP).**

**Thermoflon®-TR**
6232
For plunger pumps up to 800 bar. Universal resistance to chemicals, high stability under pressure and good sealing action makes this packing particularly suitable for the chemical industry. For detailed description, see Valve Packings. For further packings suitable for use in plunger pumps, see table on the right.

**Table lists all the key operating data of Burgmann stuffing box packings, classified according to their various potential applications.**

**Packings for pumps**

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<th>Size</th>
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**Packings for valves**

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**Important Note**
When sealing hot water pumps with stuffing box packings it should be noted that the leakage required for lubricating the packing always emerges in a liquid form. It is frequently sufficient when the heat of the medium is dissipated via the stuffing box housing. If this is not the case, additional cooling liquid must be fed into the stuffing box compartment through a seal ring, or a cooling of the jacket, gland and/or shaft be provided.

**Packings for mixers, agitators, kneaders and filters**
Various qualities pump and valve packings can be used in these machines and similar equipment depending upon the operating conditions and media.

The table "Operating Ranges and Limits" (top) contains the data needed to select the best possible packing for different service requirements.

**Important Note**
When sealing hot water pumps with stuffing box packings it should be noted that the leakage required for lubricating the packing always emerges in a liquid form. It is frequently sufficient when the heat of the medium is dissipated via the stuffing box housing. If this is not the case, additional cooling liquid must be fed into the stuffing box compartment through a seal ring, or a cooling of the jacket, gland and/or shaft be provided.

**AK-Profile**
When the AK-Profile packing is installed around a shaft, the 'trapezoidal cross-section of the braiding results in a virtually stress-free seal arrangement. In the installed state these packing rings are symmetrical, having parallel faces.

**Advantages**
- No compression of the packing against the shaft
- Low wear
- Long service life
- Minimized leakage
- Little temperature development
- Low power consumption
- Optimum distribution of forces in the packing
- No titling of the packing
- Straightforward installation

**AK-Profile**
Styles 5845, 6026, 6225/L, 6225/G, 6203, 6203/SL, 6335, 6426, 6430 are available ex stock. Other types on request (minimum order quantity).
Buratherm®

9544/T

Gasketing sheet of graphite and high-quality aramide fibres with special anti-adhesion surface coating. Resistant to oils, water, weak acids and alkalis. Especially suitable for steam. Forms supplied: Boards, shaped parts.

Standard sizes: Boards 2.000 x 1.500 mm, Thickness 1.5/2.0/3.0 mm. Approvals: KTW, WRC.

Operating limits: t = –20 °C to +600 °C, tmax = 180 °C, pH = 0–14, up to 400 bar ( > 400 bar on inquiry). Recommended surface finish of the sealing surface Rs ≤ 25 µm.

Standard material of the serrated gasket, 14541, 14571

9544/U

Synthetic fibre board made of aramide fibres, fillers and NBR; with anti-stick coating on one side. Resistant to aseptic solutions, various chemicals, fuels, oils, alkalis, acids, solvents and gaseous media. Application in the medium pressure and temperature ranges. Forms supplied: Boards, shaped parts.

Standard sizes: Boards 1500 x 1500 mm, Thickness 0.3/0.5/0.1/0.5/ 2.0/3.0 mm. Approvals: DVGW, KTW, HTB, BAM.

Operating limits: t = 250 °C, with superheated steam 260 °C (up to 450 °C for short time). p = 100 bar.

Burasil®

9544

Synthetic fibre board made of aramide fibres, fillers and NBR; with anti-stick coating on one side. Resistant to aseptic solutions, various chemicals, fuels, oils, alkalis, acids, solvents and gaseous media. Application in the medium pressure and temperature ranges. Forms supplied: Boards, shaped parts.

Standard sizes: Boards 1500 x 1500 mm, Thickness 0.3/0.5/0.1/0.5/2.0/3.0 mm. Approvals: DVGW, KTW, HTB, BAM.

Operating limits: t = 250 °C, with superheated steam 260 °C (up to 450 °C for short time). p = 100 bar.

Important note:

Avoid the use of lubricants or separating agents with Burasil® or Buratherm® – it can lead to seal failure!

Statotherm®-gaskets

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Purity % Density (g/cm³)</th>
<th>Carrier material thickness (mm)</th>
<th>Seal thickness s (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9590/P</td>
<td>Statotherm® sheet</td>
<td>&gt; 99.8 1.0</td>
<td>0.5, 1.0, 1.5, 2.0</td>
<td></td>
</tr>
<tr>
<td>9591</td>
<td>Gaskets made of 9590-P</td>
<td>&gt; 98.0 1.0</td>
<td>1.0, 1.5, 2.0</td>
<td></td>
</tr>
</tbody>
</table>

Statotherm® cover seal

As self-tightening closures in high-pressure valves. V 901/.. K(1) of pure graphite in nuclear quality (≥ 99.6 %) V 911/.. K(2) of graphite in industrial quality (≥ 98 %) V 911/.. K(2) and V 911/.. K(2) with stainless steel covers.

V 881/.. K(3) Cover seal of pure graphite with stainless steel reinforcement for high pressures and wide gaps (max. 1 mm).

9593 MKN

Manhole-cover-gasket which can be used universally in direct flow of seating loads as well as in indirect line of seating loads for all pressure classes. Once mounted it does not require any further maintenance. The metallic support with limitator is reusable. It is covered with pure flexible graphite on both sides. Preferred field of utilisation: in steam system, as replacement for self-tightening vessel-gaskets.

Form of supply: manhole, handhole – gasket. Thickness can be adapted.

550 °C, 1 = max. 500 N/mm².

Statotherm®-serrated gasket

9598/P

Serrated gasket with Statotherm® pure graphite facing, without centring ring. Item No. 9598/PZ with centring ring. Design to DIN 2697 Form B and implant standard. For use in load-bearing configurations in flange and similar connections of the chemical, petrochemical, power plant and nuclear power plant engineering, etc.

Operating ranges

t = –200 °C to +550 °C; pH = 0 – 14 up to 400 bar ( > 400 bar on inquiry) Recommended surface finish of the sealing surface Rs ≤ 25 µm.

Standard material of the serrated gasket, 14541, 14571

Statotherm® profile rings

R 901/..(2) For sealing machine parts subject to strong temperature variations and/or to high or low temperatures of such a degree as to make the use of elastomeric O-rings impossible (for example, in heating and cooling chambers, valves, heat exchangers, or in pumps as housing seals).

*) Density stages are dependent on pressure. Peak-to-valley heights required for the sealing and groove surfaces: R₁ = 10 – 40 µm. Statotherm® profile rings are only produced of pure graphite ≥ 99.8 %.

Available in all dimensions (minimum cross-section 3 mm) and profiles of up to max. 1000 mm in – US standard ARP 588 – Swedish standard SMS 1588

Spiraltherm®

9594/..(1)

Universal flat gasket of sectional stainless-steel tape with pure graphite filling, spirally rolled for flanges, covers, manholes and the like in load-bearing and non-load-bearing configurations.

*) Sectional shape of the flange connections:

9594/..NF Tongue and groove 9594/..KR Projection and recess 9594/..KL Projection and recess (with inner ring) 9594/GIA Smooth raised face (with inner and outer ring) 9594/GAS Smooth raised face (with outer ring)

Application range

Temperature from –200 °C to 450 °C, pressure up to 400 bar (2500 bar for flanges to DIN or ASME; helium leakage 1.7 · 10⁻¹³ mbar · ms⁻¹ can be achieved; pH value 0 – 14.

Materials

Gasketing tape: pure graphite quality (≥ 99.8 %) 9594/..(1) or industrial quality (≥ 98 %) 9594/..(2) Metal spiral: Standard 14541 (AISI 321) Inner ring: as for metal spiral. Outer ring: Steel, galvanized, as a rule.
9560
Flat gasket of high-temperature resistant special mica for use in exhaust-gas systems, gas turbines, high-temperature heat exchangers, burners, etc. Resistant to gaseous media, even carrying solid particles, up to over 1100 °C. Maximum permanent tightness at a low minimum surface pressure (approx. 10 N/mm²). Compresses any differing expansion of connecting parts (such as steel-ceramic connections). Statotherm®-HT thermoactive is insensitive to temperature shocks, it has a permanent “self-adjusting” filling of the sealing gap and has stood the practical test for over a million applications. Available in all dimensions, even with rectangular sections.

Standard version
Materials: Sealing material: mica compound (hydrom-alkali containing oxide of aluminium silicate)
Punched steel: St. 2 (4), 1.4828, 0.4; 0.7; 1.0
Thicknesses: with punched steel support: 1.3 ± 0.15 mm
without support: 0.4; 0.7; 1.0 ± 0.15 mm

9107/KN
For all plastic, steel and coated flanges with a smooth raised face. Simply tighten down. Tight. No overpressuring even if flanges are slanted (raised face in non-load-bearing configuration). No transverse forces, ideal for rubberized flanges. Selection of materials (seat housing and elastomer), according to your conditions of application. Available in all dimensions, even with rectangular sections.

Standard: Item no. 9107/KN (sealing EPDM, metal supporting ring St. 37 galvanized, chromated).
Peak-to-valley height recommended: Rz = < 100 mm.
Current dimensions from stock.

PTFE gaskets
6725/L
Concentric PTFE filament braid. Endless connection by inserted-tongue fastening. No cold flow. For vessels and flanges with uneven surfaces; enamelled surfaces. In Appendix: table 6, p = 10 bar, t = –200 °C to +220 °C; pH = 0 – 14. Width/thicknesses (mm): 10/3; 20/4; 25/6; 35/6; 50/7.

Bead: 1.4828
Punched steel: St. 2 (4), 1.4828, without support:

Gasket cutter
Handy and easily to be used special tool for producing seal rings from rubber and plastic sheets, etc. of approx. d = 30 to d = 1000 mm.

Gasket nibbler 9615
For cutting small quantities of gaskets (thickness 3 mm maximum) without and with carrier foils or punched inserts (0.2 mm maximum).
With the nibbler you can also produce sealing rings and any other shapes of your choice (diameter 1500 mm maximum).

PTFE round cord, twisted. As valve-seat and flange seal in the chemical, pharmaceutical, and food processing industries. Use of oxygen up to 90 °C and 40 bar at 60 °C.

Burceram®
PTF-based sealing material with filler. Structure with multi-directional orientation for high stability under pressure. No PTFE-typical inclination to cold flow. High very mechanical strength. t = –200 °C – 260 °C.

Burgmann Industries GmbH & Co. KG
Aeusserer Sauerlacher Str. 6 – 10
D-82515 Wolfgrathausen
Phone 0 8171/23-0
Fax 0 8171/23124
www.burgmann.com

For cutting small quantities of gaskets (thickness 3 mm maximum) without and with carrier foils or punched inserts (0.2 mm maximum).

9660
PTFE round cord, twisted. As valve-seat and flange seal in the chemical, pharmaceutical, and food processing industries. Use of oxygen up to 90 °C and 40 bar at 60 °C.

PTFE thread-sealing tape. Easy and quick handling; good electrical insulation. Released by BAM for oxygen up to 40 bar at 60 °C. Operating temperature limit: t = –200 °C to +220 °C; pH = 0 – 14. Width/thicknesses (mm): 10/3; 20/3; 25/4; 35/6; 50/7.

9663
PTFE round cord, twisted. As valve-seat and flange seal in the chemical, pharmaceutical, and food processing industries. Use of oxygen up to 90 °C and 40 bar at 60 °C. Operating temperature limit: t = –200 °C to +220 °C; pH = 0 – 14. Width/thicknesses (mm): 10/3; 20/3; 25/4; 35/6; 50/7.

9645-AS
PTFE flat joint sealant with self-adhesive film. Pure PTFE in the stretched structure, no cold flow. For flanges and vessels. t = –20 °C to +260 °C, (transient –300 °C); p = 200 bar, pH = 0 – 14. High tightness with uneven and damaged flange faces, simple to install, no waste.
BAM expertise Tgb. No. 10570/84 for oxygen up to 40 bar at 60 °C.

9654
PTFE flat joint sealant with self-adhesive film. Pure PTFE in the stretched structure, no cold flow. For flanges and vessels. t = –269 °C to +260 °C, (transient –300 °C); p = 200 bar, pH = 0 – 14. High tightness with uneven and damaged flange faces, simple to install, no waste.
BAM expertise Tgb. No. 10570/84 for oxygen up to 40 bar at 60 °C.

9655-R
With quartz filler. Resistant to all chemicals. Eruption: hydrogen fluorides, fluoride compounds, melts of alkali metals.

9655-W
With barium sulphate as filler. Also resistant to hydrogen fluorides and fluoride compounds as well as melts of alkali metals.

9655-B
With hollow micro glass beads as filler. Sealing effect produced by very little surface pressure. High compressibility ensures good sealing results even with non-parallel sealing faces and unevenness. Resistant to all chemicals. Exception: hydrogen fluorides, fluoride compounds, melts of alkali metals.

7260 INC
Burceram® HT glass fibre, Inconel wire reinforced, with special impregnation. Operating temperature 750 °C.

9472
Burceram® GS glass fibre round cord. Operating temperature limit: approx. 650 °C dry heat.

9480
Burceram® GS glass fibre packing, dry. Operating temperature limit approx. 500 °C.

9480-P
Burceram® GS glass fibre packing with a special graphite compound which largely prevents the ingress of solids into the gasket and maintains its elasticity.
Operating temperature up to approx. 500 °C. Forms supplied as for 9480, but with +10...+20% more weight.

6365/S
AC-Perccent®-mandate seals. Aramid/carbon fibre stain;
less steel wire reinforcement, double-wrapped with Burasil®-S. Special impregnation and Burasil®-S sheathing; t = +230 °C (228 °C with steam); p = 20 bar.

Bacar®-Jacket packing (same as 9480 but for temperatures up to approx. 700 °C). Please enquire. Also available with graphite preparation, 9481-P.

PTFE gaskets
9645
PTFE flat joint sealant with self-adhesive film. Pure PTFE in the stretched structure, no cold flow. For flanges and vessels. t = –269 °C to +260 °C, (transient –300 °C); p = 200 bar, pH = 0 – 14. High tightness with uneven and damaged flange faces, simple to install, no waste.
BAM expertise Tgb. No. 10570/84 for oxygen up to 40 bar at 60 °C.

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All technical data are based on extensive tests and on our experience of many years. However, in view of the multiplicity of applications, they can only be considered as standard values. An individual guarantee can only be assumed if the precise operating conditions are known to us. Subject to modifications.