

Pipeline & Process Equipment Gaskets



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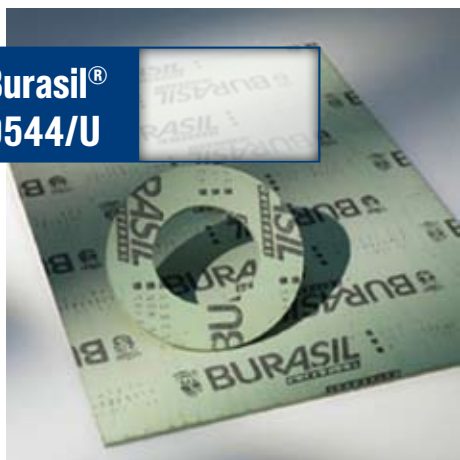
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Fibre gasket sheet

Burasil® 9544/U



Universal gasket sheet, suitable for thermally and mechanically highly stressed gasketed connections. The Burasil Universal provides the following properties:

- good chemical resistance
- good tensile strength
- high residual stress
- very low gas leakage
- very good oil resistance.

Application

Burasil® Universal is probably the best of the „green“ materials and is especially suitable for simple, general engineering applications, for chemical industry, utility engineering (gas and water supply) as well as for the beverage and food industry.

Design

Soft material gasket sheet consisting of high-quality aramid fibres, special fillers and NBR-rubber (Nitrile Butadiene Rubber). PTFE coated on both sides for easy removal.

Installation Note

The additional use of release agents could cause a gasket failure.

Technical Data

p	100 bar
t	-100 °C ... +180 °C short term up to: +250 °C

Variants

- 9544/UR (rings)
- 9544/UTH (Burasil® with PTFE cover)
- 9544/URG (Burasil® with flange)

Note

Residual stress according DIN 52913
(16 hours/300 °C/25 N/mm²)

Supply Form

sheets: 1500 x 1500, 1000 x 1500, 3000 x 1500 mm
thickness: 0,3 / 0,5 / 1,0 / 1,5 / 2,0 / 3,0 / 4,0 mm
gaskets and rings

Certification

DVGW, KTW, HTB, BAM (02), WRAS, TA-Luft

Media Resistance

Resistant to the most important groups of media: water/steam, dilute solutions, acids, alkalis, oils/coolants, solvents, gases.

Burasil® 9544/B



Standard gasket sheet with a balanced mixture of basic materials for flange and flange-like connections in common service pressure and temperature applications. Burasil®-Basic offers:

- good chemical resistance
- low gas leakage
- good residual stress.

Application

Flange gaskets for general engineering applications as well as for the chemical industry and sanitary applications (gas and water supply).

Design

Synthetic sheet made of high-quality aramid fibres, fillers and NBR rubber (Nitrile Butadiene Rubber). Sheet is manufactured with anti-stick coating on one side.

Installation Note

The use of lubricant or anti-seize compound can cause seal failure.

Technical Data

p	80 bar
t	-50 °C ... +250 °C Transient peak temperature up to +350 °C

Variants

- 9544/BR (rings)

Note

residual stress according to DIN 52913
(16 hours; 300 °C) 18 N/mm²

Supply Form

sheets: 1500 x 1500, 1000 x 1500, 3000 x 1500 mm
thicknesses: 0,3 / 0,5 / 1,0 / 1,5 / 2,0 / 3,0 mm
gaskets and rings

Certification

DVGW, KTW, HTB, WRC

Media Resistance

Resistant to dilute solutions and a variety of chemicals, fuels, oils, solvents and gaseous media.

Fibre gasket sheet

Buratherm® N
9544/N



A superb universal gasket material. Much wider field of applications in comparison to other fibre-based materials with regard to mechanical performance under temperature and also in respect of chemical resistance due to the high content of graphite. It has the most up-to-date material combination, which combines the advantages of graphite and aramid. Outstanding surface quality and optimal function of anti-stick coating. Further particular properties are:

- high compression strength
- long service time
- easy handling
- no hardening.

Application

Universal gasket sheet, suitable for general industry, particularly the chemical and petrochemical industry. Because of its superior adaptability this sealing material is recommended especially for old and worn plant equipment with poor surface finishes.

Design

Soft gasket based on graphite with reinforcement of para-aramid fibre and reduced fillers as well as optimised anti-stick coating on both sides.

Technical Data

p	100 bar
t	-100 °C ... +300 °C

Variants

- 9544/NR (rings)
- 9544/NG (with eyelet)

Note

sheets: 2000 x 1500; 1500 x 1500 mm
thicknesses: 0,5 / 1,0 / 1,5 / 2,0 / 3,0 mm
rings and gaskets

Supply Form

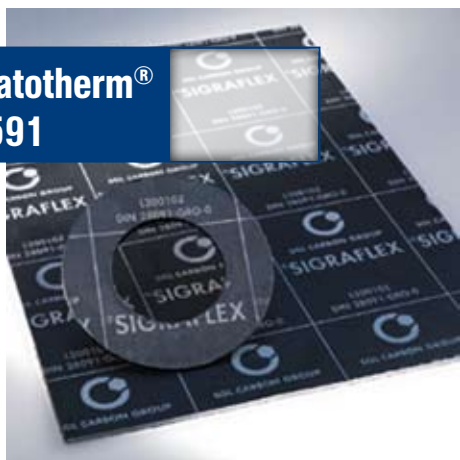
DVGW; KTW; WRC; W270; HTB
BAM (max. 120 °C/130bar)
TA-Luft

Media Resistance

Oils and greases, acids and alkalis, solvents, coolants, water, steam

Graphite gasket sheet

Statotherm® 9591



Statotherm® foil is the basic gasket material without measurable cold- or warm flow and therefore applicable for all branches of industry as the gasket material for valves and pumps, for emergency service and special applications. The graphite layer does not age and doesn't become brittle, due to the absence of binders. Statotherm® has a good resistance to chemicals, an excellent performance with temperature cycling and high stability under pressure. The soft and flexible material can compensate for uneven surfaces.

Application

Gasket for flat face flanges, for enamel and glass surfaces, especially for inspection holes.

Design

Sheet material without reinforcement, of flexible graphite, purity >99,8% and low ash content <0,15%.

Installation Note

For installation only use dry and undamaged gaskets. Wet graphite gaskets should be installed after complete drying.

Technical Data

p	60 bar
t	-200 °C ... +500 °C steam: +550 °C
pH	0 ... 14

Variants

9591-R (rings, gaskets)

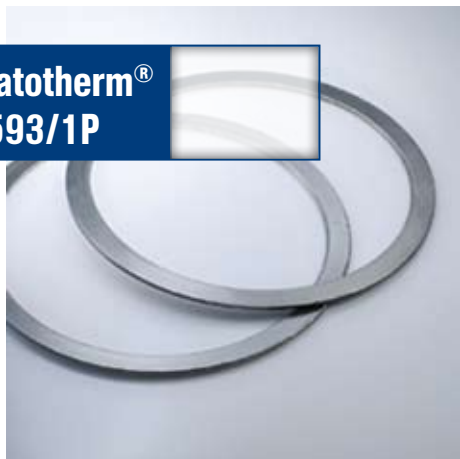
Supply Form

sheets: 1000 x 1000 mm
thickness: 1,0 / 1,5 / 2,0 / 3,0 / 4,0 mm
Made-to-measure according to customer requirements.

Certification

DVGW, BAM (02)

Statotherm® 9593/1P



Statotherm® 1P is a gasket sheet material with a highly adaptive graphite layer. Suitable for low surface pressure or with weak flanges. This graphite gasket stands out because of:

- no ageing, no altering
- long term stability of compression and recovery
- extraordinary oxidation reliability

Application

Static gasket material for low surface pressure and weak flanges. Suitable for use in pumps and valves with low sealing thickness, for exhaust or gas supply systems e.g. off-shore services.

Design

Graphite based sheet made from flexible graphite (>98%), which are bonded to smooth stainless steel foil (1.4401; 0,05 mm thickness).

Installation Note

For a safe installation use dry and undamaged gaskets. Wet graphite gaskets should be installed after complete drying.

Technical Data

p	25 bar
t	-250 °C ... +400 °C at inert ambience or steam: up to +500 °C
pH	0 ... 14

Variants

- 9593/1R (rings, gaskets)
- 9593/1S (segments)

Supply Form

sheets: 1000 x 1000 mm
thickness: 0,55 / 0,75 / 1,0 / 1,5 / 2,0 / 3,0 mm
Made-to-measure according to customer requirements.

Certification

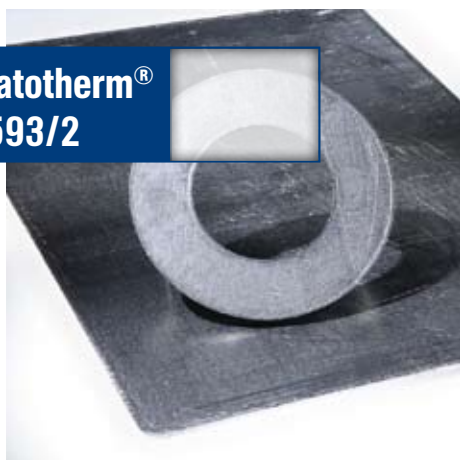
DVGW, BAM-approval 200 °C/130 bar

Media Resistance

Resistant to almost all organic and inorganic acids, alkalis, oils and solvents.

Graphite gasket sheet

Statotherm®
9593/2



Graphite sheet with stainless steel reinforcement. For flanges and door seals in DENOX-plants.

Application

Universal solution for applications, where aggressive media, high temperatures and high pressures occur simultaneously.

Design

Metal reinforcement with Statotherm® pure graphite on each side.

Technical Data

t	-200 °C ... +500 °C, steam: +550 °C
pH	0 ... 14

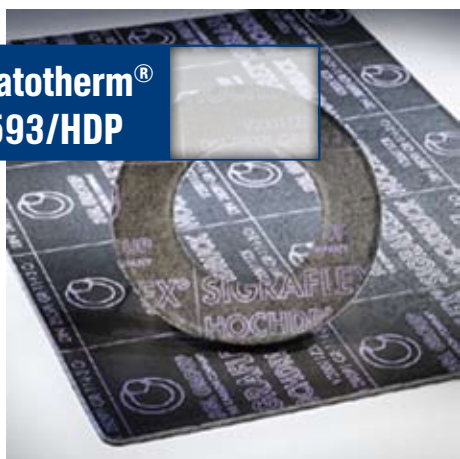
Supply Form

Round or rectangular seal sheet with pure graphite layer of 1–2 mm thickness glued on both sides. Depending on size, the seal is produced in one piece or supplied as segments, with dovetailed joints.

Certification

DVGW, BAM (02)

Statotherm®
9593/HDP



Statotherm® HD is the perfect solution for applications with high flange pressures and high operating pressures. The gasket is used for applications with a high demand for operating safety and leak tightness; also in power plants as asbestos-free alternative for vessel seals.

- Good performance under temperature cycling
- no-ageing, doesn't become brittle, because it is adhesive-free
- Very good handleability
- High mechanical stability

- Stable long-term performance with respect to compression and resilience properties over a wide temperature range.

Application

Statotherm® HD is suitable for difficult and highly stressed flange connections (e.g. tongue and groove flanges), equipment, heat exchanger, steam services and boiler sight glasses – in both new and old equipments.

Design

Reinforced, multi-layer sheet made of 0,5mm thick layers of high grade, impregnated graphite foils (purity >99,8%) manufactured without adhesive with 0,05mm thick stainless steel foils. Original Sigraflex HD, 9593-HIG: with inner eyelet made of stainless steel (1.4571), thickness: 0,15mm.

Installation Note

For a safe installation use dry and undamaged gaskets. Wet graphite gaskets should be installed after complete drying.

Technical Data

p	250 bar
t	-200 °C ... +450 °C, steam: +550 °C
pH	0 ... 14

Variants

- 9593/HDR (rings and gaskets)
- 9593/HDM (manhole gasket according to German TRD 401)
- 9593/HIG (with inner eyelet)

Supply Form

sheets: 1000 x 1000; 1500 x 1500 mm
thickness: 1,0 / 1,5 / 2,0 / 3,0 / 4,0 mm
Made-to-measure to customer requirements.

Certification

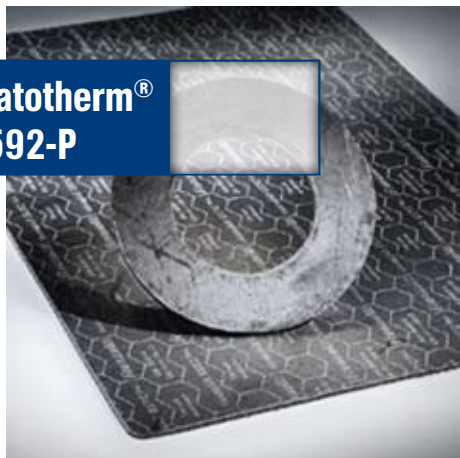
DVGW, BAM-approval (130 bar/100 °C)
TA-Luft (>55MPa) MPA, TÜV, Germanischer Lloyd
Fire Safety: API 607

Media Resistance

Resistant to almost all organic and inorganic acids, alkalis, oils and solvents.

Graphite gasket sheet

Statotherm® 9592-P



High quality gasket sheet made of expanded graphite and a layer of expanded metal. It can replace the whole spectrum of classic gasket materials.

Application

This material is universally applicable in all areas of industry and maintenance engineering. Good solution for applications, where aggressive media, high temperatures and high pressures occur simultaneously. Additionally, appropriate for low surface

pressure or narrow flange width. Generally suitable for all applications under extreme conditions, even under cycling loads. Especially designed to meet the TA-Luft requirements (IPPC-directive). Suitable e.g. in petrochemical and chemical industry or plant engineering, as well as for flanges in old equipment due to the excellent adaptability and flexibility. Very good for standardisation. Conforms to requirements of TA-Luft (VDI-guideline 2440) of 10^{-4} mbar \cdot l/s \cdot m leakage at 30 MPa.

Design

Graduated sealing material of expanded graphite >99% with an acid-resistant expanded metal inlay of chromium-nickel-steel (1.4404) formed into a three dimensional structure. Without any binder, filler and silicon free.

Technical Data

Standards in accordance with EN 1514-1 for thickness 1,6 mm: Qmin (0,1): 10 MPa according EN 13555 for 40 bar
QSm_{ax} 300 °C: 140 MPa
Blowout safety according to VDI 2200 class C

p	200 bar
t	-240 °C ... +550 °C
pH	0 ... 14

Variants

9592/R (rings), 9592/G (rings with eyelet)

Note

DIN 28091-4: GR-10-I-1M-Cr, no ageing

Supply Form

sheets: 1000 x 1000, 1500 x 1500 mm
thickness: 1,0 / 1,6 / 3,0 mm
as well as rings with and without inner eyelet

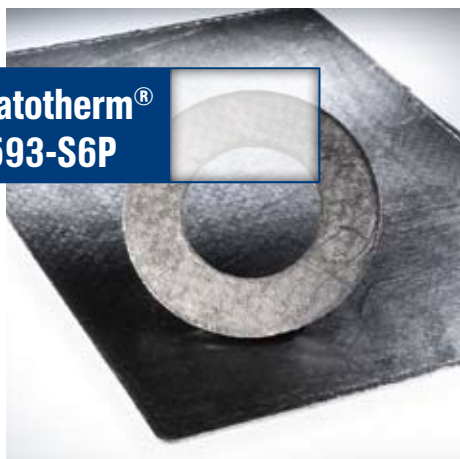
Certification

TA-Luft, Fire safe (API607/BS6755),
BAM (O2: 200 °C/130bar), DVGW

Media Resistance

Resistant to almost all organic and inorganic acids, alkalis, oils and solvents.

Statotherm® 9593-S6P



Graphite sheet with tanged metal reinforcement. Applicable for steam, gases, oils, aggressive media in all branches of industry. Used in pipe flanges, hand holes, pump flanges, valves, ball valves etc.

Application

Universal solution for applications, where aggressive media, high temperatures and high pressures occur simultaneously.

Design

Sheet made of flexible graphite, with stainless steel tanged metal reinforcement (1.4401, 0,1mm thickness), purity >98,0%

Technical Data

p	40 bar
t	-200 °C ... +500 °C, steam: +550 °C
pH	0 ... 14

Variants

- 9593/S6R (Rings)
- 9593/S6G (with eyelet)

Supply Form

sheets: 1500 x 1500 mm
thickness: 1,0 / 1,5 / 2,0 / 3,0 mm
Made-to-measure to customer requirements.

Certification

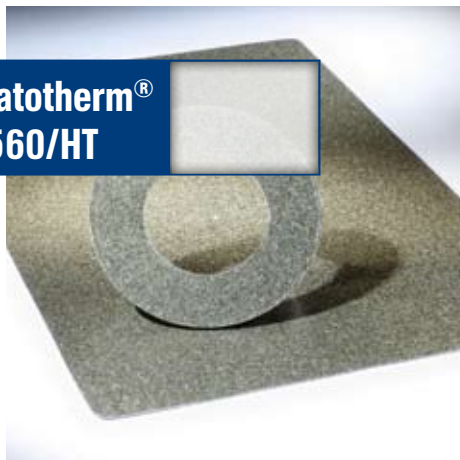
DVGW

Media Resistance

Resistant to almost all organic and inorganic acids, alkalis, oils and solvents.

Graphite gasket sheet

**Statotherm®
9560/HT**



Statotherm HT has the excellent characteristic of growing (in thickness) at the same rate as the flange material expansion rate i.e. the sealing material follows the deformation of the flange while retaining the necessary tightness with unprecedented stability.

Application

- Burner flanges in combustion systems
- high-temperature heat exchangers
- gas turbine housings
- flange joints of turbochargers and other exhaust gas superchargers
- industrial ceramic components
- aerospace
- motor vehicle engines – for fitting between the cylinder head and manifold and in the downstream flange joints of controlled catalytic convection systems.

Design

Sealing material: Mica compound

Reinforcement: Tanged sheet – St. 2(4), 1.4828

Eyeletting – 1.4828

Technical Data

p	5 bar
t	+ 950 C in oxidising atmosphere > 1100 C in non-oxidising conditions

Variants

- 9560/1 with Tanged metal reinforcement (St.2)
- 9560/1G with Tanged metal reinforcement and eyeletting (St.2/1.4828)
- 9560/2 with Tanged metal reinforcement (1.4828)
- 9560/2G with Tanged metal reinforcement and eyeletting (1.4828/1.4828)

Supply Form

1000 x 1000 mm; 1500 x 1000 mm Sheets 0.4, 0.7, 1.0, 1.3, 1.7 mm thicknesses

Media Resistance

Gaseous media, including those containing solids

Graphite seals and tapes

Statotherm® 6850/V



Cover seal (Brettschneider-seal) by the metre, for general on-site maintenance use. Successfully applied as self-sealing cover seal in high-pressure valves, e.g. for power plants at high temperatures and independent of diameter. Very flexible, non-hardening, long service life, easy installation without risk of damaging the sealing surfaces as can happen with metallic seals.

Application

Cover seal

Design

Packing braided with rectangular profile. Made of permanently elastic pure graphite foils (96% graphite) with braided-in inconel wire reinforcement to increase pressure resistance. Doesn't contain binders.

Technical Data

Chloride content	<100 ppm
average density	1,4 g/cm
p	500 bar
t	-200 °C ... +500 °C, Temperature limit for steam: +550 °C
pH	0 ... 14

Note

Not suitable for strong oxidizing media. Preferably to seal in places, where inner bevel, outer bevel or rectangular profiles are needed. This seal will adapt to any of those.

Manhole gas. 6365/HP



novaSEAL® HP – the classic ring for hand-, head- and manhole closures in boilers and tanks

- Can be used without any restrictions (test category D)
- Has a specially designed surface for maximum safety
- Adapts very well to the closures, irrespective of the closure system involved
- Guarantees leakproof boiler operation, limited cold water tightness, easy installation and removal

- To be tightened again after installation when the boiler is restarted and reaches its proper operating condition once installation has been completed.

Design

The new novaSEAL® HP ring is produced from a temperature-, corrosion- and chemical resistant high-performance fabric with an elastomer coating that has been specially developed to satisfy test category D requirements. Endless, dimensionally stable rings with unique properties are manufactured from the coated fabric in our proven production process.

Technical Data

p	40 bar
t	+250 °C
Surface pressure	min. 5 N/mm ² , max. 35 N/mm ²
Recommended heating gradient	max. 2 °C/min
Boiler water/media resistance	TRD 611

With the variety of installation and service conditions as well as application and process engineering this

brochure can only be taken as a guide. Guarantee claims cannot be inferred from these data.

Supply Form

novaSEAL® HP is manufactured as an oval hand-, head- and manhole ring for boilers and tanks. This ring is produced in the following standard dimensions (internal oval x edge width x thickness)

80 x 120 x 15 x 8 mm	220 x 320 x 25 x 10 mm
100 x 150 x 15 x 8 mm	300 x 400 x 25 x 10 mm
115 x 165 x 15 x 8 mm	320 x 420 x 25 x 10 mm
150 x 200 x 15 x 8 mm	350 x 450 x 25 x 10 mm

(Further dimensions are available on request)

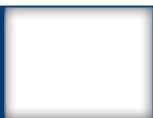
novaSEAL® HP seals are individually packed with detailed installation instructions attached.

Certification

TÜV.D.05-013.D
ISO/TS 16949
ISO 14001

Graphite seals and tapes

Statotherm V881



Statotherm® Cover Seals (Brettschneider-Seals) are applied as self-sealing gaskets in high-pressure valves e.g. for power plants at high temperatures and up to approximately 1000mm diameter. They do not harden, have a long service life and can easily be installed and removed without damaging the seal surface, as can happen with metallic seals. Because of the metal reinforcement it can also bridge larger gaps, minimising extrusion and ensuring operating safety.

Application

Cover seal

Design

Statotherm-pure graphite (99,8%) with internal stainless steel inserts for larger gaps and for higher pressures.

Technical Data

V881-B6: Thickness 1,4 g/cm³

V881-B7: Thickness 1,6 g/cm³

V881-B8: Thickness 1,8 g/cm³

p	800 bar
v	2 m/s
t	-200 °C ... +500 °C In reducing or inert atmosphere: +3000 °C
pH	0 ... 14

Variants

V881-R7 (rectangular)

V881-A7 (outer chamfer)

V881-I7 (inner chamfer)

V881-R7K (rectangular with one cap)

V881-A7K (outer chamfer with one cap)

V881-I7K (inner chamfer with one cap)

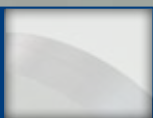
Supply Form

Die-pressed rings, according to customer requirements. In different densities and profiles.

Media Resistance

Resistant to almost all organic and inorganic acids, alkalis, oils and solvents.

Statotherm V901



Statotherm® V901 rings are high precision seals, which give a very good sealing result with excellent service life combined with very little wear. Cover seals (Brettschneider-seals) are used as self-sealing gaskets in high-pressure valves e.g. for power plants at high temperatures and up to approx. 1000mm diameter. They do not harden, have a long service life and can easily installed and removed without damaging the seal surface, as can happen with metallic seals.

Application

Cover seal

Design

Permanently elastic, expanded graphite (>99,8% graphite, nuclear grade) without binders or fillers.

Technical Data

Ash content <0,15 %

Chlorides <20ppm

density (raw material) 0,7 or 1,0 g/cm³

0901/B5: density 1,2 g/cm³

0901/B6: density 1,4 g/cm³

0901/B7: density 1,6 g/cm³

0901/B8: density 1,8 g/cm³

p	500 bar
v	2 m/s
t	-200 °C ... +500 °C Temperature limit for steam: +550 °C
pH	0 ... 14

Variants

rectangular profile (without, or with one or with two end caps):

V901/R7, V901R7K, V901RKK, V901RWK

outer chamfer (without, with one or with two caps):

V901/A7, V901A7K, V901AKK

inner chamfer (without, with one or with two caps):

V901/I7, V901I7K, V901I

Supply Form

Die-pressed rings, acc. to drawing, measurements or other requirements.

Profile I = ring with inner bevel, profile A = ring with outer bevel, profile R = rectangular diameter

„N“ at the end of Art. No. Stands for „nuclear quality“! e.g. V901I7N

Media Resistance

Resistant to almost all organic and inorganic acids, alkalis, oils and solvents.

Graphite seals and tapes

Statotherm 6750/INC



6750 Braided graphite tape with adhesive backing, which has good chemical resistance and high recovery ratio. 6750-INC Braided graphite tape with reinforced Inconel wire and adhesive backing. Standard dimensions:

- 12.7 x 3.2 mm
- 25.4 x 6.4 mm
- 31.8 x 6.4 mm
- 38 x 6.4 mm

Application

It is used as gasket tape on any uneven surface on the vessel or flange under high temperature and high pressure. It has been widely used for sealing heat exchangers, boilers, pipelines, oven doors and vessel covers because its easy use with no restriction on dimension.

Technical Data

p	100 bar (6750), 250 bar (6750-INC)
t	-200 °C ... +550 °C
pH	0 ... 14

Variants

6750-INC

Note

The packing can be stored in its original packaging for a minimum of 3 years in dry, cool, conditions. The maximum stated operating temperature and pressure cannot be used simultaneously.

Supply Form

2kg/roll

Statotherm R901/B



Profile rings, that are almost maintenance-free, for severe temperature changes and/or extreme temperatures, which cannot be handled by elastomeric O-rings. Statotherm® Profile rings provide good deformability, permanent resilience, long-term flexibility and good structural strength.

Application

Pressed rings of expanded pure graphite for static sealing of machine parts in high temperature applications and with temperature cycles, e.g. in heating and cooling systems, heat exchangers, valves or in pumps as seal for casing.

Design

Permanently elastic, expanded graphite (>99,8% graphite) without binders or fillers.

Technical Data

ash content <0,15%
chloride content <20ppm
density (raw material): 0,7 or 1,0 g/cm³

p	500 bar
v	2 m/s
t	-200 °C ... +500 °C, steam: +550 °C
pH	0 ... 14

Variants

R901/B5: density 1,2 g/cm³
R901/B6: density 1,4 g/cm³
R901/B7: density 1,6 g/cm³
R901/B8: density 1,8 g/cm³

Note

The deformation of Statotherm® Profile rings is permitted in axial direction only. The construction of the groove must be designed to avoid any radial deformation of the sealing ring as this may destroy it.

Supply Form

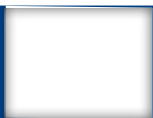
All measurements (minimum diameter 3mm) and profiles up to max. Ø1000mm die-pressed rings, closed or in segments

Media Resistance

Resistant to almost all organic and inorganic acids, alkalis, oils and solvents.

Insulating seals and tapes

BuraGlas® 9496



Woven sealant tape made of glass-fibre with strong selvage

Application

Static sealing and thermal insulation, replacement for asbestos

Design

Woven glass tape with strong selvages and woven lane. Woven lane takes depending on width approx. 1/3 of tape with.

Technical Data

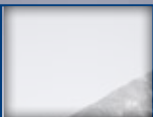
Hydrolytic class 1 acc. to DIN 12 111

t	+550 °C
pH	5 ... 9

Media Resistance

GS-materials are pH neutral and resistant to water, steam, oil, neutral as well as dry gases in range of pH 5–9.

BuraGlas® 9480/P



Square glass-fibre packing for sealing of vessels, coal mills, heaters, oven doors, flaps, lids and for thermal insulation of pipe flanges, pipe bushings etc.

Application

Static high temperature sealing

Design

Glass-fibre packing, square with glass fibre core, concentrically braided around a core, impregnated with graphite. 9480/P: square braided glass-fibre packing made of texturized glass silk with special graphite impregnation.

Technical Data

t	+400 °C
pH	5 ... 9

Variants

9480 (pure glass)

Note

The indicated values for temperatures can be taken as permanent temperatures in case of air contact. All materials are free of inflammable materials.

Supply Form

square: 6, 8, 10, 12, 16, 20, 25, 30, 32, 35 mm

Media Resistance

GS-materials are pH neutral and resistant to water, steam, oil, neutral as well as dry gases in range of pH 5–9.

Insulating seals and tapes

BuraGlas®
GS 9495



Woven glass fibre sealant tape with reinforced, stitched edges.

Application

As static seal and thermal insulation.

Design

This tape is woven from ceramic fibres (aluminium borosilicate). The different layers are stitched and glued together and then impregnated with a special high-temperature resistant graphite compound.

Technical Data

t	+550 °C
pH	6 ... 10

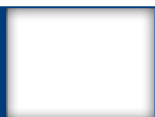
Supply Form

diameters: 2 / 3 / 5 mm
widths: 30 / 40 / 50 / 60 / 80 / 100 mm
25-m-rolls

Media Resistance

GS-materials are pH neutral and resistant to water, steam, oil, neutral as well as dry gases.

BuraGlas®
9483/HT



For sealing of vessels, coal mills, heaters, oven doors, flaps and cover lids. Also suitable for thermal insulation of pipe flanges, pipe bushings etc. Resistant to oxidation, high strength of fibres. Materials pH neutral.

Application

Static high temperature sealing

Design

Excellent temperature resistance. Permanently impregnated with special natural mica dispersion. Oxidation-resistant, tear resistant with good mechanical strength for easy handling.

Technical Data

t	+800 < 1000 °C (Dry gases)
pH	5 ... 9

Note

The indicated values for temperatures can be taken as sustained temperatures even in case of air contact. All materials are non-flammable.

Supply Form

square: 6, 8, 10, 12, 16, 20, 25, 30, 32, 35 mm

Media Resistance

GS-materials are pH neutral and resistant to water, steam, oil, neutral as well as dry gases in range of pH 5–9.

Insulating seals and tapes

BuraGlas®
9480



BuraGlas® GS Glass-fibre packing is suitable for sealing of vessels, coal mills, industrial heaters, oven doors, hatches and covers as well as for thermal isolation of pipe flanges, pipe bushings etc. All materials are free of inflammable materials.

Application

Static sealing for high temperatures

Design

Square braided glass-fibre packing made of texturized glass yarn.

Technical Data

Hydrolytic class 1 acc. to DIN 12 111

t	+550 °C
pH	5 ... 9

Variants

9480/P (graphited)

Note

The indicated values for temperatures can be taken as sustained temperatures even in case of air contact.

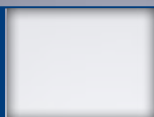
Supply Form

packing with square section
measurements 4 ... 60mm
supplied by the metre

Media Resistance

GS materials are pH neutral and resistant to water, steam, oil, neutral as well as dry gases.

BuraGlas®
9472



Glass-fibre round packing for static sealings in vessels, ovens and oven doors. For thermal insulation of pipe flanges. All materials are free of inflammable materials.

Application

Static sealing and thermal insulation

Design

Round braided glass-fibre packing

Technical Data

t	approx. +650 °C
pH	5 ... 9

Variants

9472/P (graphited)

Note

The indicated values for temperatures can be taken as sustained temperatures even in case of air contact. All materials are free of inflammable materials.

Supply Form

Round braided packing
measurements 4 ... 50mm
supplied by the metre

Media Resistance

GS-materials are pH neutral and resistant to water, steam, oil, neutral as well as dry gases.

Insulating seals and tapes

BuraGlas®
9481/HT



Glass-fibre HT packing, for sealing of vessels, coal mills, industrial heaters, oven doors, flaps and covers as well as for thermal insulation of pipe flanges, pipe bushings etc. All materials are free of inflammable materials.

Application

Static high temperature sealing

Design

Square braided glass-fibre packing made of texturized glass yarn.

Technical Data

t	+700 °C
pH	5 ... 9

Variants

9481/P (graphited)

Note

The indicated values for temperatures can be taken as sustained temperatures even in case of air contact.

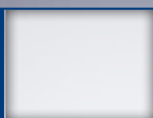
Supply Form

packing with square diameter measurements 6 ... 35mm supplied by the metre

Media Resistance

GS-materials are pH neutral and resistant to water, steam, oil, neutral as well as dry gases.

BuraGlas®
7260/INC



Glass-fibre packing for sealing of vessels, coal mills, heaters, oven doors. For thermal isolation of pipe flanges. All materials are free of inflammable materials.

Application

Static sealing and thermal isolation.

Design

Core made of HT glass-fibre yarn with inconel reinforcement and special impregnation.

Technical Data

t	+750 °C
pH	5 ... 9

Variants

Also available with Mica impregnation up to 800 °C; 7260 (without Inconel reinforcement)

Note

The indicated values for temperatures can be taken as sustained temperatures even in case of air contact.

Supply Form

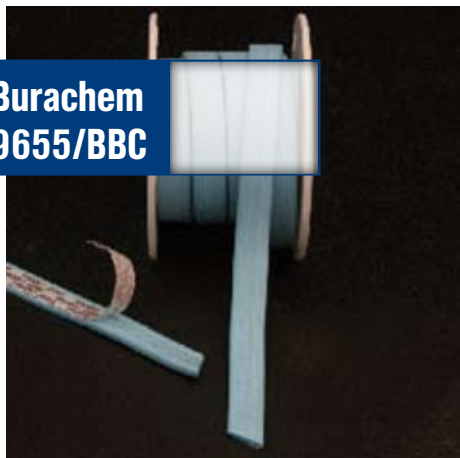
square-packing measurements 4 ... 60mm supplied by the kg

Media Resistance

Neutral and dry gases.

PTFE Flange sealants

**Burachem
9655/BBC**



Universal seal for reliable and economic sealing of plastic and fragile equipment flanges. The self-adhesive tape is very suitable to produce seals in any shape on-site. Preparation, delivery time and expensive waste in using cut gaskets is avoided.

- very good flexibility
- high resilience ability
- high chemical resistance
- good creep and cold flow properties
- dimensionally stabilized
- universally applicable

- high tightness
- reduction of shut down times
- quick and easy installation
- no scrap
- reduction of total costs

Application

Universal sealing material for on-site making of seals

Design

Sealant tape of microcellular expanded PTFE, filled with hollow glass micro-spheres, therefore very flexible.

Installation Note

With self adhesive strip on one side, the tape is easy and quick to install.

Technical Data

The pressure resistance depends only on installation and operating conditions.

t	-240 °C ... +270 °C, transient peak up to +315 °C
pH	0 ... 14

Note

Recommended operation limits:

-200 °C up to +200 °C, with simultaneously permitted over-pressure.

Supply Form

supplied by the metre, on rolls with length of 10m, 25m or 50m, 9 x 3 mm, 14 x 3 mm, 19 x 3 mm

Certification

FDA US 21 CFR 177.1550

Media Resistance

Universally resistant, except HF, H3PO4, concentrated alkalis, diluted and molten alkali metals as well as elementary fluorines at higher temperatures and pressures.

**Burachem
9655/RBC**



Universal seal for reliable and economic sealing of ring-shaped or angled flanges e.g. pressure vessels or heat exchangers. The self-adhesive tape sold by the metre is very suitable to produce seals in any shape on-site. Preparations, delivery time and expensive waste (in case of punched gaskets) are not applicable.

- very good flexibility
- high resilience ability
- high chemical resistance
- good creep and cold flow properties
- dimensionally stabilized
- universally applicable

- high tightness
- reduction of shut down times
- quick and easy installation
- no scrap
- reduction of total costs

Application

Universal sealing material for on-site making of seals

Design

Sealant tape of micro-cellular expanded PTFE, filled with quartz, with high residual thickness when installed

Installation Note

With the self adhesive strip on one side, the tape is easy and quick to install. The closing joint is easily made with a knife.

Technical Data

The pressure resistance depends only on installation and operating conditions.

t	-240 °C bis +270 °C, transient peak up to +315 °C
pH	0 ... 14

Note

Recommended operation limits:

-200 °C up to +200 °C, with simultaneously permitted over-pressure

Supply Form

sold by the metre, on rolls with length of 10m, 25m or 50m, 9 x 3 mm, 14 x 3 mm, 19 x 3 mm

Certification

FDA US 21 CFR 177.1550

Media Resistance

Universally resistant, except HF, H3PO4, concentrated alkalis, diluted and molten alkali metals as well as elementary fluorines at higher temperatures and pressures.

PTFE Flange sealants

**Burachem
9655/WBC**



Universal seal for reliable and economic sealing of plastic flanges and equipment flanges. The self-adhesive tape is very suitable to produce seals in any shape on-site. Preparation, delivery time and expensive waste in using cut gaskets are not applicable.

- good flexibility
- high resilience ability
- high chemical resistance
- good creep and cold flow properties
- dimensionally stabilized
- universally applicable

- high tightness
- reduction of shut down times
- quick and easy installation
- no scrap
- reduction of total costs

Application

Universal sealing material for on-site making of seals.

Design

Sealant tape of micro-cellular expanded PTFE, without fillers for highest chemical resistance.

Installation Note

With the self adhesive strip on one side, the tape is easy and quick to install.

Technical Data

The pressure resistance depends only on installation and operating conditions.

t	-240 °C ... +270 °C, transient peak up to +315 °C
pH	0 ... 14

Note

Recommended operation limits:

-200 °C up to +200 °C, with simultaneously permissible over-pressure

Supply Form

supplied by the metre, on rolls with length of 10m, 15m or 50m, 9 x 3 mm, 14 x 3 mm, 19 x 3 mm

Certification

FDA US 21 CFR 177.1550

Media Resistance

Universally resistant, except HF, H3PO4, concentrated alkalis, diluted and molten alkali metals as well as elementary fluorines at higher temperatures and pressures.

**Burachem
9654/MB**



PTFE gasket tape with high adaptability and stability for extreme requirements such as fragile equipment, large diameter steel flanges with considerable unevenness or very rough surfaces. ePTFE material is distinguished by high adaptability and simultaneous low cold flow as well as a high dimensional stability. The high bi-axial strength also provides high residual stress.

Application

PTFE gasketing tape for extreme applications in load bearing connections. Outstanding for large pressure vessels and steel flanges, glass lined vessels or columns, tubular and other heat exchangers and all other complex gasketing shapes. For flanges with high distortion, surface damage or unevenness the tape can be layered and shimmed.

Design

Sealant tape of 100% pure, virgin PTFE with self-adhesive on the rear face. Because of the special manufacturing technique the result is a fibrillised structure (ePTFE), which demonstrates extraordinary properties.

Installation Note

Easy installation on-site including cutting to length or adjustment by hand. Severe unevenness can be levelled by layering and/or shimming. No holding time, no cure time required.

Technical Data

- In accordance with EN 1514-1 for thickness 2 mm
- Qmin(0,01): 25 MPa according EN 13555 for 40 bar
- Qsmax: 180 MPa
- blow-out safety according VDI 2200 Klasse C

The pressure resistance depends only on installation and operating conditions. Please check our installation and maintenance instructions.

t	-240 °C ... 270 °C, transient peak up to +315 °C
pH	0 ... 14

Note

No aging of the sealing tape. The adhesion depends on storage- and installation conditions.

Supply Form

width: 10...65 mm
thicknesses: 2 / 3 / 6 / 9 mm
supplied in rolls

Certification

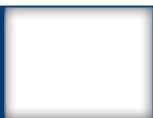
TA-Luft

Media Resistance

Resistant to all media, except diluted and molten alkali metals as well as elementary fluorine at T > 150 °C and p > 40 bar.

PTFE Flange sealants

Burachem 9654-MMH



Manhole gasket, multi-directional orientated ePTFE Safety Gaskets with stainless steel reinforcement, are specifically designed for high demands for safety and tightness of oval hand-holes, manholes and all kind of inspection ports in vessels and boilers. They are tested and permitted to be used in accordance with German TRD401/VDTÜV Instruction Seal 100. The multidirectional fibrous structure and the unique construction of MultiTex Safety Gaskets with stainless steel reinforcement ensure a long reliable seal life.

Application

Self-sealing hand- and manhole doors for boilers of all sizes and makes (pressurized, hot water, steam).

Design

Manhole seal of ePTFE with stainless steel reinforcement and multidirectional fibre structure.

Installation Note

The very high adaptability on installation ensures exceptional cold water tightness. The previously needed high installation costs when using a separate watertight rubber gasket for the cold water pressure test is no longer necessary.

Technical Data

Approved up to 25 bar operating pressure, cold water test pressure: 55 bar

t	approved up to 225 °C
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Supply Form

Ready to install rings in the following sizes:

- 80 x 120 x 15 x 8
- 100 x 150 x 15 x 8
- 120 x 160 x 15 x 8
- 220 x 320 x 25 x 8
- 300 x 400 x 25 x 8
- 320 x 420 x 25 x 8 mm
- other measurements on request

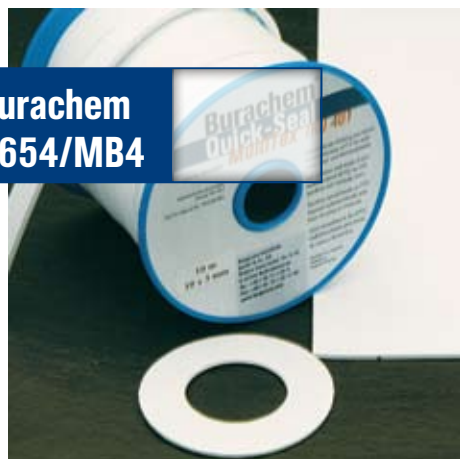
Certification

TÜV, TRD 401

Media Resistance

Corresponding to the media resistance of the grade of stainless steel, resistant to boiler feed water acc. TRD.

Burachem 9654/MB4



ensures a long life in operation. Its high adaptability during installation provides unusually high cold water tightness.

Application

Self-sealing hand- and manhole doors for boilers of all sizes and manufacturers (pressurized, hot water, steam).

Design

Sealant tape of ePTFE with multi-directional fibre structure, self-adhesive on one side, made of 100% Teflon® PTFE.

Installation Note

Use the right tape width which corresponds to the sealing width of the lid. With the self adhesive strip on one side, the tape is easy to install. To get a seal, the tape will be cut with an angle at one end. If applicable start at bolt hole. Then the tape will be stuck on in the middle of the sealing surface. To close the ends, the tape will again be cut with an angle and attached overlapping.

Technical Data

approved up to 25 bar operating pressure

t	approved up to 225 °C
pH	0 ... 14

Supply Form

Supply as tape by the metre, with self adhesive strip for easy installation, on rolls of 10m, 25m, or 50m. width:

- Boiler tape narrow for lids with 15mm sealing surface width.
- Boiler tape large for lids with 25mm sealing surface width.

Certification

TÜV, TRD 401

Media Resistance

Resistant to all media, except diluted and molten alkali metals as well as elementary fluorine at T > 150 °C and p > 40 bar.

ePTFE-sealant tape is made out of virgin, expanded PTFE. The special manufacturing process produces a multi-directional fibrous texture which gives these seals very special properties. The materials show very low compressive creep and low increase in width even at extreme conditions. This boiler tape is specifically designed for use in boiler hand-holes and manholes. It is the first and, at this time, only multi-directional ePTFE sealant tape permitted to be used in accordance with TRD 401/VDTÜV-Instruction "seal 100". The special construction of this tape

PTFE Flange sealants

Burachem 9654/UF



The sealant tape, self adhesive on one side, shows the highest adaptability of all PTFE seals. There is an adhesive strip protected by a masking paper on the rectangular seal face to fix the sealing tape to the flange surface. Extremely easy to handle thereby it is available and applicable almost anywhere for all kinds of frame sizes and construction shapes.

Application

All types of flanges in load bearing connections like pipelines, equipment flanges, compensators, air-handling systems and air conditions.

Design

Self adhesive sealant tape of 100% Teflon® PTFE. The particular production process causes a micro-porous, mono-directional fibre structure (ePTFE), that gives the seal its special properties.

Installation Note

The pressure resistance depends only on installation and operating conditions. Please check our installation and maintenance instructions. With the self adhesive strip on one side, the tape is easy to install.

Technical Data

t	-240 °C bis +270 °C, transient peak up to +315 °C
pH	0 ... 14

Note

The sealant tape is not subject to ageing. The adhesive life depends on the storage and installation conditions.

Supply Form

width x height:
 3 x 1,5 mm/5 x 2 mm/7 x 2,5 mm/10 x 3 mm/
 12 x 4 mm/14 x 5 mm/17 x 6 mm/20 x 7 mm/
 28 x 5 mm/40 x 5 mm;
 supplied on rolls, in lengths 5, 10, 25 and 50 m

Certification

BAM (O2) up to 100 bar/90 °C
 DVGW up to 16 bar
 FDA 21

Media Resistance

Resistant to all media, except diluted and molten alkali metals as well as elementary fluorine at T > 150 °C and p > 40 bar.

Sealant tape 6725/L



PTFE filament sealant tape for vessels and flanges with rough, uneven, or enamelled surfaces. Suitable for food industry. Almost no PTFE cold flow.

Application

Universal sealing tape for static application

Design

Concentrically woven PTFE filament yarn.

Installation Note

Endless connection by inserted-tongue fastener

Technical Data

p	15 bar
t	-200 °C ... +280 °C
pH	0 ... 14

Media Resistance

Resistant to strong acids and alkalis, aggressive gases, solvents, foods, pharmaceuticals (not against molten alkali metals).

PTFE Flange sealants

Graphite s. tape 6732



Design

PTFE/graphite yarn braided into flat sealant tape.

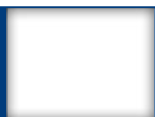
p	25 bar
t	-200 °C ... +280 °C
pH	0 ... 14

Media Resistance

Resistant to strong acids and alkalis, aggressive gases, solvents, (not suitable for liquid alkali metals).

PTFE-Graphite sealant tape, dry (without additional impregnation). For vessels and flanges with high levels of unevenness and/or enamelled surfaces. The high content of high quality carbon yarns is very flexible and gentle to sealing surface.

Cord seal 9660



Suitable for valves spindles and flanges in chemical, pharmaceutical and food industry.

Application

Valve spindles and flanges

Design

Cord for valve spindles made from twisted pure PTFE. PTFE with reduced-cold flow due to special production procedure.

Installation Note

The pressure resistance depends only on installation and operating conditions. Please check our installation and maintenance instructions. With the self adhesive strip on one side, the tape is easy to install.

Technical Data

p	105 bar
t	-200 °C ... +280 °C
pH	0 ... 14

Note

Flanges will be sealed quickly and effectively by laying the round PTFE cord (twist ends together) in a ring around the flange surface.

Supply Form

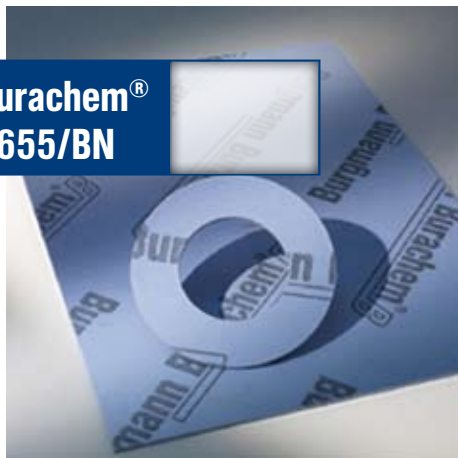
Diameter 2,5 mm; roll: 15 m
Diameter 3,2 mm; roll: 15 m
Diameter 4,0 mm; roll: 10 m
Diameter 6,0 mm; roll: 15 m
Diameter 8,0 mm; roll: 5 m
Diameter 10,0 mm; roll: 5 m
supplied on rolls, in lengths 5, 10, 25 and 50 m

Certification

BAM-Tgb.-No. 10570/840 for oxygen of 50 bar at 100°C or of 30 bar at 200 °C

PTFE gasket sheet

Burachem®
9655/BN



Burachem® B has high chemical resistance and the greatest flexibility of our PTFE gasket sheets. It provides a seal even with low surface pressures and when there are only low bolt forces available.

Application

Burachem® B is suitable for the pharmaceutical and food industries, especially for glass pipelines, glass enamelled or plastic flanges.

Design

PTFE-based sealing material, filled with hollow micro glass beads.

Technical Data

p	55 bar
t	-210 °C ... +260 °C
pH	0 ... 14

Variants

9655/BNR (Rings)

Note

No ageing

Supply Form

sheets 1200 x 1200 up to 1,0 mm thickness
sheets 1500 x 1500 from 1,5 mm thickness
Standard-thickness: 1,0 / 1,5 / 2,0 / 3,0 mm
die-pressed rings, closed or in segments.

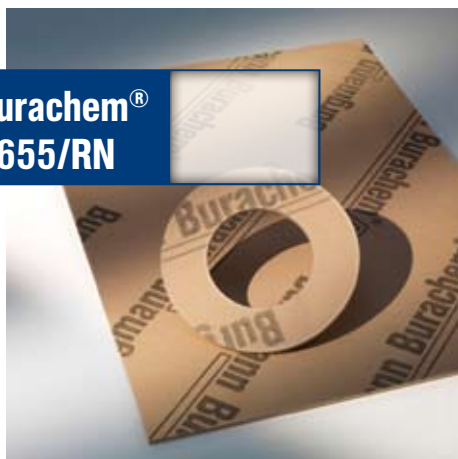
Certification

FDA 21CFE 177.1550
TA-Luft

Media Resistance

Excellent media resistance throughout the complete pH range as well as to most bases and acids. Not suitable for fluor-hydrogens, fluorine-compounds or molten alkali metals.

Burachem®
9655/RN



Ideal gasket sheet for standardisation because Burachem® R offers best mechanical and chemical properties. Compared to conventional PTFE, this gasket is suitable for considerably higher pressure and temperature applications.

Application

Universal gasket for pharmaceutical and food industry as well as for chemical and petrochemical applications.

Design

PTFE-based sealing material, filled with Silica.

Technical Data

p	Vacuum up to 83 bar
t	-210 °C ... +260 °C
pH	0 ... 14

Variants

9655/RR (rings)

Supply Form

sheets 1200 x 1200 up to 1,0 mm thickness
sheets 1500 x 1500 from 1,5 mm thickness
Standard-thicknesses: 1,0 / 1,5 / 2,0 / 3,0 mm
blanked rings, closed or in segments.

Certification

FDA 21CFE 177.1550
TA-Luft
Bam
DVGW

Media Resistance

Resistant throughout the complete pH range as well as against concentrated acids. Not suitable for fluorine-hydrogens, fluorine-compounds or molten alkali metals (except hydrofluorides).

PTFE gasket sheet

Burachem®
9654/MP



PTFE gasket sheet with exceptional adaptability. This material shows almost no increase in width and simultaneously very low compressive creep even at extreme conditions. It has an outstanding residual stress for a PTFE gasket material.

Application

Mainly in chemical or pharmaceutical industry and in food applications. Perfectly for flange gasketing in pipeline installations, pumps and agitators or for heat exchangers or process equipment. Particularly suit-

able for sealing of weak and brittle flange materials like plastic and FRP-flanges, glass- and glass-lined flanges, ceramic and graphite equipment or lined steel flanges.

Design

Burachem® MultiTex ePTFE sheet material is made out of 100% virgin PTFE. Because of a special manufacturing technique this process results in a multidirectional fibrillised structure (ePTFE), which effects the extraordinary properties.

Installation Note

Very easy on-site cutting or size-optimization with hand tools possible.

Technical Data

In accordance with EN 1514-1 for thickness 2 mm
 • Qmin(0,01): 25 MPa according EN 13555 for 40 bar
 • QSmax: 180 MPa
 • Blow-out safety according VDI 2200 class C

p	Vacuum until 200 bar
t	-240 °C bis +270 °C, short term up to +315 °C
pH	0 ... 14

Variants

9654/MPR (rings)

Note

No ageing

Supply Form

sheet 1000 x 1600 mm
 thickness 1,0 / 1,5 / 1,6 / 2,0 / 3,0 / 4,0 / 5,0 / 6,0 mm

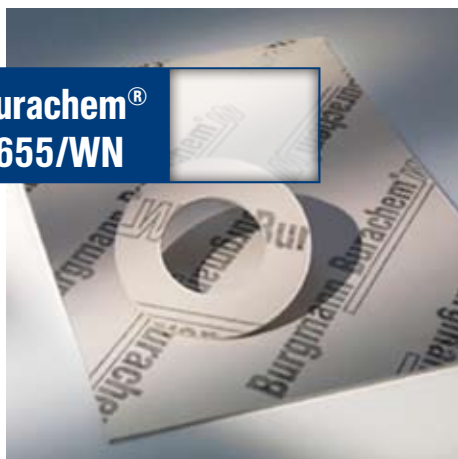
Certification

BAM (oxygen) 160 °C/40 bar
 TA-Luft
 FDA 21 CFR 177.1550 physiologically harmless under long term temperature use up to +260 °C, according to BG Nr. 21

Media Resistance

Resistant to all media, except diluted and molten alkali metals as well as elementary fluorine at T > 150 °C and p > 40 bar.

Burachem®
9655/WN



Cold-flow reduced PTFE based gasket sheet with high mechanical strength and chemical resistance as well as optimized creep resistance.

Application

This high purity material has been formulated for use in food and pharmaceutical applications and in the pulp and paper industry.

Design

PTFE-based sealing material, with barium sulphate filler.

Technical Data

In accordance with EN 1514-1 for thickness 2 mm
 • Qmin (0,1): 13 MPa according EN 13555 for 40 bar
 • QSmax 100 °C: 140 MPa
 • blow-out safety according VDI 2200

p	vacuum up to 83 bar
t	-210 °C ... +260 °C
pH	0 ... 14

Supply Form

sheets 1200 x 1200 up to 1,0 mm thickness
 sheets 1500 x 1500 from 1,5 mm thickness
 Standard-thicknesses: 1,0 / 1,5 / 2,0 / 3,0 mm
 cut rings, complete or in segments

Certification

FDA 21CFR 177.1550
 TA-Luft-confirmation
 BAM (O₂); 83 bar/250 °C
 DVGW
 physiological harmless over long term temperature use

Media Resistance

Excellent media resistance throughout the complete pH range as well as to most bases and acids. Not suitable for fluor-hydrogens, fluorine compounds or molten alkali metals.

PTFE gasket sheet

Burachem®
9655/V



Universal virgin PTFE sheet material for

- pipe flanges
- heat exchangers
- process equipment
- pumps
- and agitator flanges

Application

Chemical and pharmaceutical applications.

Design

Sheet material made of 100% virgin PTFE.

Technical Data

t	-210 °C ... +260 °C (-364 °F ... +500 °F)
pH	0 ... 14

Supply Form

sheets 1000 x 1500 mm
thicknesses from 0,05 up to 5 mm
other measurements on request.

Certification

Physiologically harmless under permanent operating temperature up to +260 °C, acc. BG Nr. 21; conforms to the requirements of FDA 21.

Tools and maintenance products

Elastic Tank-pak 6756/TE



Universally applicable tank lid seal with high chemical resistance and flexibility. For hatches and tank lid seals on all kind of storage tank, road tanker vehicles, ships, trains, etc.

Application

Tank lid seal

Design

This seal consists out of an elastic hollow elastomere core, spirally wrapped with a cushion out of polypropylene. To ensure chemical resistance it is additionally wrapped with PTFE foils. This construction is responsible for the excellent resilience property.

Technical Data

Tank lid seal	
p	1 bar
t	max. +100°C

Note

The packing can be stored safely in its original packaging for a minimum of 3 years in dry, cool, conditions. The maximum stated operating temperature and pressure cannot be used simultaneously.

Supply Form

square, 10 ... 50mm, supplied by the metre

Gasket nibbler 9615



Tool for gasket cutting from sheet materials with or without metal reinforcement in smaller quantities. With this nibbler any gasket form can be cut, not only rings. Ideally for quick repair service and on-site cutting.

Application

To cut gaskets out of sheet material

Design

The complete equipment consists of an aluminium base plate, a nibbler with holding device, a parallel stop, an allen key to change cutting knives, a spare knife, two clamps, punching tool, a plate to punch on as well as a pair of scissors to cut sealing material (to prepare smaller pieces from sheet material).

Technical Data

voltage: 220 V
strokes: 100 mm min.
min. seal diameter: approx. 60 mm
max. seal diameter approx. 1500 mm
seal thickness: 3 mm max.
max. thickness of metal inlay: 0,2 mm

Supply Form

Set/spare parts

Tools and maintenance products

**Joudol® SM
8152**



Universal-high-duty lubricant and anti-seize agent with a graphite base. Prevents seals from sticking and baking to surfaces. Keeps screw threads movable.

Application

Lubricant and anti-seize agent

Design

Mixture based on graphite

Technical Data

Resistant from -200 °C up to $+500\text{ °C}$

Supply Form

Can 1kg

Tube 230g

Spray 200ml

Argentina · Australia · Austria · Belarus · Belgium · Bulgaria · Brazil · Canada · Chile · China · Colombia · Cyprus · Czech Republic · Denmark · Ecuador · Egypt · Estonia
Finland · France · Germany · Great Britain · Greece · Hungary · India · Indonesia · Iraq · Iran · Israel · Italy · Japan · Jordan · Kazakhstan · Korea · Kuwait · Latvia · Libya
Lithuania · Malaysia · Mauritius · Mexico · Morocco · Myanmar · Netherlands · New Zealand · Nigeria · Norway · Oman · Pakistan · Paraguay · Peru · Philippines · Poland
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EagleBurgmann is one of the leading international companies for industrial sealing technology. Our products are used everywhere when safety and reliability are important: In the oil and gas industries, petroleum refining, chemicals, energy, food, paper, water, marine applications, aerospace and mining. Every day, more than 5000 employees contribute their ideas, solutions and commitment to ensuring that customers all over the world can rely on our seals. Our modular seal service, TotalSealCare™, underlines our commitment to customer orientation and our provision of tailor-made services for every application.

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