



Expanded graphite

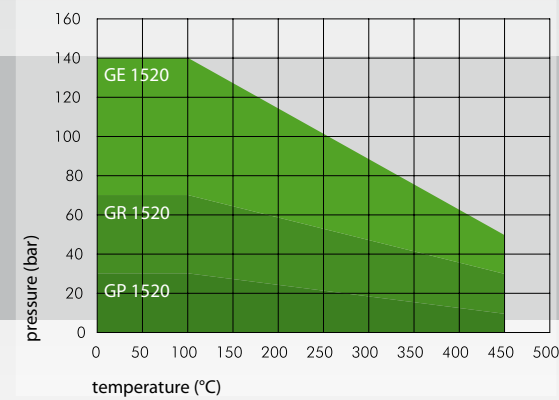
TEADIT® GR 1700	TEADIT® GP 1520	TEADIT® GR 1520/GE 1520	TYPE
Graphite sheet	Graphite sheet	Graphite sheet with plain (GR) or tanged (GE) metal insert	Composition
BAM	----	----	Tests Approvals
Fire Safe according API 607, Blow-Out resistance			
black	black	black	Colour
1,1 g/cm ³	1,0 g/cm ³	----	DIN Density
35 %	40 - 50 %	40 - 50 % / 30 - 40 %	ASTM F 36 Compressibility
15 - 20 %	> 10 %	10 - 25 % / 15 - 30 %	ASTM F 36 Recovery
-250 to 480 °C (steam up to 650 °C) inert atmosphere to 800 °C	-240 to 450 °C (steam up to 650 °C) inert atmosphere to 1000 °C	-240 to 450 °C (steam up to 650 °C) inert atmosphere to 800 °C	Operating Temp. Range (Peak)
Vacuum to 250 bar	30 bar	70 bar / 140 bar	Operating Pressure
> 98 %	> 99 %	> 98 %	Carbon
< 25 ppm	< 30 ppm	< 30 ppm	Chloride
< 300 ppm	< 1000 ppm	< 1000 ppm	Sulphur

Description:
TEADIT® GR 1700 is a multilayer high strength graphite sealing sheet designed for high temperature and pressure applications. The sheet is comprised of 0.5 mm thick layers of highly oxidation resistant flexible graphite and 0.05 mm thick plain stainless steel foils.

- Advantages:**
- ideal for critical applications.
 - high mechanical strength and blowout resistance.
 - wide range of working pressure.
 - very low creep relaxation.
 - extremely high maximum permissible gasket stress.
 - provides an excellent torque retention and high long term sealability.
 - superior thermal stability.

Description:
TEADIT® expanded graphite sheets are produced from pure, expanded flexible graphite and do not contain any other fibres or filler materials. Because of their specific structure expanded graphite sheets are particularly suited for applications with extremely high or low temperatures, with highly corrosive and aggressive media and for gas as well as steam applications.

- Advantages:**
- universally applicable for gases and fluids.
 - chemically resistant against most media.
 - excellent thermal conductivity.
 - can be stored indefinitely.
 - do not need anti-stick coating.
 - extremely resistant to temperature cycles.

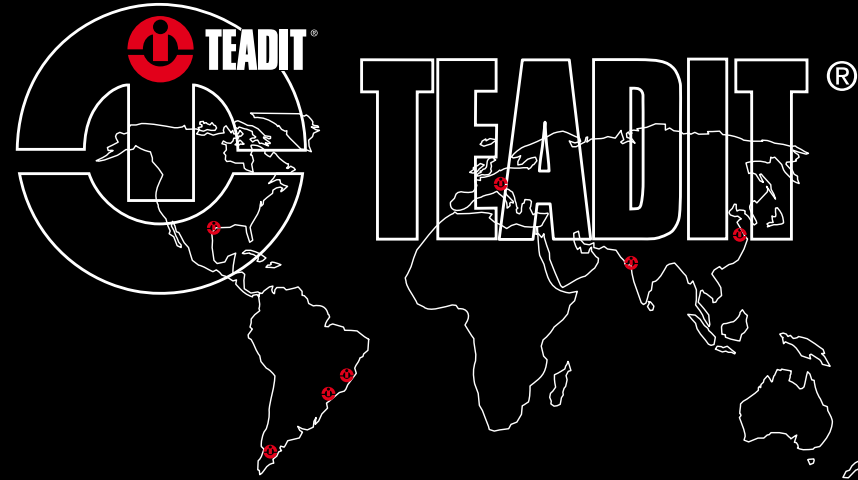


Dimensions:

GP 1520 / GR 1520 / GE 1520
1000 x 1000 mm
1,0 / 1,5 / 2,0 / 3,0 mm

GE 1520
1500 x 1500 mm
1,5 / 2,0 / 3,0 mm

GR 1700
1500 x 1500 mm
1,0 / 1,5 / 2,0 / 3,0 mm



PTFE gasket material • structured PTFE sheets • multidirectionally exp. PTFE sheets • multidirectionally exp. PTFE tapes • monidirectionally exp. PTFE tapes • **Braided gland packings** • Carbon / Graphite packings • PTFE packings • PTFE / Aramid packings • Aramid packings • Glass packings • Acrylic packings • Ramie packings • Polyimid packings • Novoloid packings • Nomex packings • Preformed packing rings • **Compressed fibre sheets** • Carbon / Graphite / NBR • Aramid /NBR • Cellulose / NBR • **Graphite sheets** • Graphite sheets with plain metal insert • Graphite sheets with tanged metal insert • Pure graphite sheets • **Gaskets** • PTFE envelope gaskets • Cut gaskets • Gaskets with metal eyelets • Double jacketed gaskets • Spiral-wound gaskets • Kammprofile gaskets • Hand- and manhole gaskets • Tank lid gaskets • Braided gasket tapes • **Jampak** • Injection gun • Jampak injectable compounds • Seal-Cage-System • **Expansion Joints** • Metallic and Non-Metallic Expansion Joints • **Accessories** • Various packing cutters • Packing extractors • Circular gasket cutter • **and many more...**

www.teadit.eu



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GASKET SHEETS



Sealing for a safer and greener tomorrow



TYPE	ePTFE			Structured PTFE				Compressed fibre sheets					TYPE
	TEADIT® 24 SH	TEADIT® 30 SH	TEADIT® TF 1510	TEADIT® TF 1570	TEADIT® TF 1580	TEADIT® TF 1590	TEADIT® NA 1006	TEADIT® NA 1005	TEADIT® NA 1002EU	TEADIT® NA 1122	TEADIT® NA 1100		
Composition	100 % PTFE	100 % PTFE	PTFE with hollow glass micro spheres	PTFE with hollow glass micro spheres	PTFE with Barium Sulfate	PTFE with Silica	A blend of fibers bonded with Nitrile rubber (NBR)	A blend of aramid and other synthetic fibers bonded with Nitrile rubber (NBR)	Aramid fibres bonded with Nitrile rubber (NBR)	Inorganic fibres and special fillers, bonded with nitrile rubber (NBR)	Graphite and carbon fibres, bonded with Nitrile rubber (NBR)	Composition	
Tests Approvals	BAM FDA, TA Luft, Blow-out test (VDI 2200), EC 1935/2004, EU 10/2011, USP VI, ABS Product Approval, DVGW, WRAS	BAM FDA, TA Luft, Blow-out test (VDI 2200), EC 1935/2004, EU 10/2011, USP VI, DVGW, WRAS, ABS Product Approval	----- TA Luft, Blow-out test (VDI 2200)	BAM FDA, TA Luft, Blow-out test (VDI 2200), ABS Product Approval, EC 1935/2004, EU 10/2011	BAM FDA, TA Luft, DVGW, Blow-out test (VDI 2200), ABS Product Approval, EC 1935/2004, EU 10/2011	BAM FDA, TA Luft, EC 1935/2004, EU 10/2011, DVGW, Blow-out test (VDI 2200), ABS Product Approval	----- ABS Product Approval	----- ABS Product Approval, Flame-resistance ISO 19921	BAM KTW, TA Luft, WRAS, Blow-out test (VDI 2200), ABS Product Approval, Flame-resistance ISO 19921, DVGW, DVGW HBT	----- ABS Product Approval	----- DVGW, TA Luft, Blow-out test (VDI 2200), ABS Product Approval	Tests Approvals	
Colour	white	white	white	blue	off - white	fawn	light green	blue	green	black	black	Colour	
Tensile Strength	ASTM F 152 > 20 MPa	> 25 MPa	14 MPa	14 MPa	14 MPa	14 MPa	4 MPa	11,5 MPa	12 MPa	9 MPa	15 MPa	ASTM F 152 Tensile Strength	
Compressibility	ASTM F 36 > 45 %	> 45 %	50 %	25 - 40 %	4 - 10 %	5 - 15 %	15 - 25 %	7 - 17 %	5 - 15 %	7 - 17 %	5 - 15 %	ASTM F 36 Compressibility	
Recovery	ASTM F 36 > 10 %	> 10 %	> 16 %	> 30 %	> 40 %	> 40 %	> 35 %	> 45 %	> 50 %	> 40 %	> 50 %	ASTM F 36 Recovery	
Leakage (TA Luft)	VDI 2440 2,6 · 10 ⁻⁷ mbar l _s /sm	8,3 · 10 ⁻⁷ mbar l _s /sm	1,1 · 10 ⁻⁵ mbar l _s /sm	3,7 · 10 ⁻⁶ mbar l _s /sm	5,9 · 10 ⁻⁷ mbar l _s /sm	1,1 · 10 ⁻⁶ mbar l _s /sm	-----	-----	5,5 · 10 ⁻⁷ mbar l _s /sm	-----	1,87 · 10 ⁻⁷ mbar l _s /sm	VDI 2440 Leakage (TA Luft)	
Operating Temp. Range (Peak)	-268 to 260 °C	-268 to 260 °C	-268 to 260 °C	-268 to 260 °C	-268 to 260 °C	-268 to 260 °C	max. 200 °C (210 °C)	max. 240 °C (400 °C)	max. 260 °C (400 °C)	max. 430 °C (550 °C)	max. 270 °C (450 °C)	Operating Temp. Range (Peak)	
Operating Pressure (Peak)	Vacuum to 200 bar	Vacuum to 200 bar	Vacuum to 55 bar	Vacuum to 55 bar	Vacuum to 83 bar	Vacuum to 83 bar	max. 30 bar (50 bar)	max. 50 bar (110 bar)	max. 80 bar (110 bar)	max. 102 bar (150 bar)	max. 70 bar (130 bar)	Operating Pressure (Peak)	

Description:
TEADIT® 24 SH and 30 SH are gasket sheets produced from 100 % pure, multidirectionally expanded PTFE (Polytetrafluoroethylene).

Advantages:

- Universally employable gasket sheet for all applications. It is suitable for all types of flanges, nearly all media, a wide Temperature range and even for applications with the toughest demands on purity. It is inherently clean and nontoxic.
- Better creep resistance at higher temp. compared with other PTFE gaskets.
- Excellent malleability.
- Gaskets cut from TEADIT® SH sheets are dimensionally stable.
- TEADIT® SH sheets are quick & simple to install.
- Can be stored indefinitely.

TEADIT® 30 SH

- The newly developed TEADIT® 30 SH gasket sheet provides, due to its much more homogeneous and considerably finer fibrillation, a drastically improved creep resistance, especially at elevated temperatures.
- With TEADIT® 30 SH it is possible to make easy flange calculations according to EN 1591-1:2014 for all dimensions.

- Dimensions:**
- 24 SH / 30 SH**
1500 x 1500 mm
0,5 / 1,0 / 1,5 / 2,0 / 3,0 / 4,0 / 5,0 / 6,0 / 9,0 mm
- TF 1570**
1500 x 1500 mm
1,5 / 2,0 / 3,0 / 4,8 / 6,4 mm
1200 x 1200 mm
1,0 mm
- TF 1580 / TF 1590**
1500 x 1500 mm
1,5 / 2,0 / 3,0 mm
1200 x 1200 mm
1,0 mm

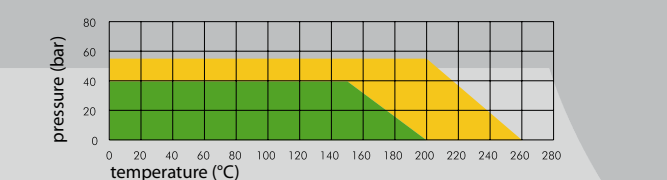
Description:
TF 1510 has the highest compressibility of all TF-sheets, comparable to that of ePTFE material. It is produced from virgin PTFE resin filled with hollow glass micro-spheres.

Advantages:

- particularly well suited for use with uneven and / or older flanged joints.
- suitable for service with a wide variety of aggressive fluids.
- easy to cut.
- excellent malleability.

Advantages:

- Suitable for service with a wide variety of aggressive fluids.
- High compressibility.
- Excellent malleability.
- Quick and simple to install.



Description:
TF 1570 is a structured PTFE Gasket Sheet manufactured by a unique process which provides a high level of fibrillation to overcome the creep relaxation and cold flow problems associated with normal (skived or moulded) PTFE sheets. TF 1580 is produced from virgin PTFE resin filled with Barium Sulfate.

Advantages:

- Suitable for all types of flanges, nearly all media.
- Suitable for service with a wide variety of aggressive fluids, hydrocarbons, moderate acids and strong caustics.
- The high purity of this gasket sheet makes it perfectly suitable for the food and pharmaceutical industry.
- Quick and simple to install.

Description:
TF 1590 is a structured PTFE - Gasket - Sheet manufactured by a unique process which provides a high level of fibrillation to overcome the creep relaxation and cold flow problems associated with normal (skived or moulded) PTFE sheets. TF 1590 is produced from virgin PTFE resin filled with Silica.

Advantages:

- Suitable for services with high pressures and temperature.
- Suitable for service with a wide variety of aggressive fluids especially strong acids.
- TF 1590 is quick and simple to install.



Description:
TEADIT® style NA-1006 is a non-asbestos jointing-sheet material produced from a blend of fibers bonded with Nitrile rubber (NBR). It is a commercial fibre sheet grade for low to medium pressures and temperatures. It is being manufactured by means of a hot calender process. TEADIT® maintains a quality management system that is certified according to DIN EN ISO 9001.

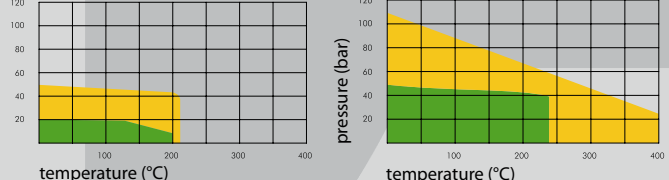
Advantages:

- It is a commercial fibre sheet grade for low to medium pressures and temperatures.
- Suitable for water, oils and acids in mild service.

Description:
TEADIT® style NA-1005 is a compressed non-asbestos jointing-sheet material produced from a blend of aramid and other synthetic fibers bonded with Nitrile Rubber (NBR). NA-1005 is a general purpose material with very good mechanical, temperature and chemical properties. It is being manufactured by means of a hot calender process. TEADIT® maintains a quality management system that is certified according to DIN EN ISO 9001.

Advantages:

- It is a general purpose material with very good mechanical, temperature and chemical properties.
- Suitable for sealing petroleum derivatives, water, saturated steam, gases or chemical products in general.
- Excellent cost-performance ratio.
- Recommend as insert for PTFE envelope gaskets.



Description:
TEADIT® style NA-1002EU is a high-end compressed non-asbestos jointing-sheet material produced from a combination of inorganic fibres and special fillers, bonded with nitrile rubber (NBR). It is being manufactured by means of a hot calender process. TEADIT® maintains a quality management system that is certified according to DIN EN ISO 9001.

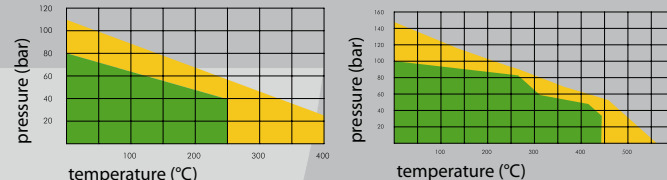
Advantages:

- The material has excellent mechanical, temperature and chemical properties.
- Suitable for sealing petroleum derivatives, water, saturated steam, gases or chemical products in general. Exceptional performance in gas applications.

Description:
TEADIT® style NA-1122 is a compressed non-asbestos sheet gasket material produced from a combination of inorganic fibres and special fillers, bonded with nitrile rubber (NBR). It is being manufactured by means of a hot calender process. TEADIT® maintains a quality management system that is certified according to DIN EN ISO 9001. TEADIT style NA-1122 is also available with wire reinforcement.

Advantages:

- Developed to exhibit superior thermal stability during extreme thermal cycling applications.
- Specially recommended for saturated and superheated steam.
- Very effective in sealing liquids, Ethanol, Petroleum derivatives and other fluids.



Description:
TEADIT® style NA-1100 is a universal jointing sheet with high temperature and pressure resistance, manufactured from graphite and carbon fibre, bonded with Nitrile rubber (NBR). It is being manufactured by means of a hot calender process. TEADIT® maintains a quality management system that is certified according to DIN EN ISO 9001.

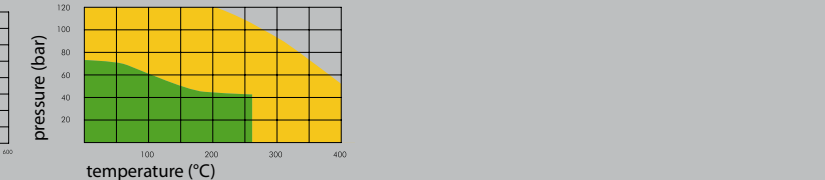
Advantages:

- The material has excellent mechanical, temperature and chemical properties, because Carbon fibres provide max. strength and stability.
- TEADIT style NA-1100 is suitable for sealing petroleum derivatives, water, saturated steam, solvents, gases and chemical products in general.

Dimensions:
1500 x 1600 mm
1500 x 3200 mm

NA 1006
0,8 / 1,0 / 1,5 / 2,0 / 3,0 mm

NA 1005
NA 1002EU
NA 1122
NA 1100
0,5 / 1,0 / 1,5 / 2,0 / 3,0 mm



■ Standard range of service limits
■ Maximum application limits

All technical data and recommendations given are based on our experiences. However, we do not undertake any liability whatsoever. All data and values have to be checked by the user, since the effectiveness of a seal can only be judged correctly by evaluating all data and parameters directly on site. The stated parameters of all products are approximate and may be mutually influenced if occurring together. We suggest you contact us in the case of special applications.