



Sealing for a Safer and Greener Tomorrow

FLUID SEALING PRODUCTS



Packing - Compressed Fiber Sheet - PTFE Products - Graphite Products - Metallic Gaskets

About the Teadit® Group

With plants and operations worldwide, the Teadit® Group serves industrial fluid sealing requirements with a complete range of products and technical services. In business for more than 50 years, the company is vertically integrated from the basic development of yarns and filaments used in the manufacture of its products, to the installation of its products in the field. Teadit® is a world leader in the development and manufacture of compression packings, gasket sheet materials, metal gaskets, textiles, metal bellows, expansion joints and expanded PTFE joint sealant materials in the form of tapes and sheets.

Teadit® Research and Development Department has world-class technical support, product development, and testing.



Teadit® has state-of-the-art manufacturing facilities worldwide with plants operating under ISO 9001 certification. Careful consideration and implementation is given to environmental concerns.



Teadit® North America occupies a 110,000 square foot building in Pasadena, Texas. The building is located near the intersection of Red Bluff and Bay Area Blvd. The state-of-the-art manufacturing facility specializes in the production of Die and Precision Cut Gaskets, Spiral Wound Gaskets, Corrugated Gaskets, Camprofile, Double Jacketed and Special Alloy Metal Gaskets. Teadit also stocks a variety of Fluid Sealing materials such as: Compression Packings, Compressed Non-Asbestos Gasket Sheet Materials, Tealon® (Restructured PTFE), Expanded Teflon (sheet and rolls), and Graphite Sheet.



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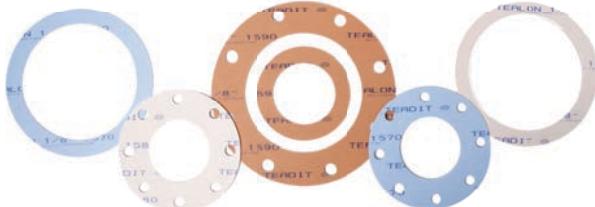
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As changes, additions and deletions will be common with published data, please consult our Website to insure the most up to date information is being considered.

COMPRESSION PACKING

Static Reciprocating Rotating

2235 - Flexible Graphite with Inconel Wire Jacket (Steam Service)



Temperature °F (°C):
Max. **842** (450) Min. **-400** (-240)
Steam **1202** (650)
pH: **0 - 14**
Pressure psi (bar): **6500** (450)

2236 - Flexible Graphite with Inconel wire Jacket (Low Emission)



Temperature °F (°C):
Max. **851** (455) Min. **-400** (-240)
Steam **1202** (650)
pH: **0 - 14**
Pressure psi (bar): **6526** (450)

Certified
Fire Test
API622 • ISO 15848-1

2002 - Carbon Yarn, Graphite Filled



Temperature °F (°C):
Max. **842** (450) Min. **-400** (-240) Steam **1200** (650)
Shaft Speed f/m (m/s): **3937** (20)
pH: **0 - 14**
Pressure psi (bar): **4351** (300) **1450** (100) **362** (25)

2202 - Flexible Graphite with Carbon Corners



Temperature °F (°C):
Max. **842** (450) Min. **-400** (-240) Steam **1200** (650)
Shaft Speed f/m (m/s): **3937** (20)
pH: **0 - 14**
Pressure psi (bar): **4351** (300) **2900** (200) **435** (30)

2000IC - Flexible Graphite, Wire Reinforced



Temperature °F (°C):
Max. **842** (450) Min. **-400** (-240) Steam **1200** (650)
pH: **0 - 14**
Pressure psi (bar): **5800** (400)

Certified
Fire Test

2000 - Flexible Graphite



Temperature °F (°C):
Max. **842** (450) Min. **-400** (-240) Steam **1200** (650)
Shaft Speed f/m (m/s): **3937** (20)
pH: **0 - 14**
Pressure psi (bar): **4351** (300) **1450** (100) **435** (30)

2001 - Graphite Yarn, Graphite Filled



Temperature °F (°C):
Max. **842** (450) Min. **-400** (-240) Steam **1200** (650)
Shaft Speed f/m (m/s): **3937** (20)
pH: **0 - 14**
Pressure psi (bar): **4351** (300) **1450** (100) **435** (30)

2103T - Carbon Yarn, PTFE Impregnated



Temperature °F (°C):
Max. **536** (280) Min. **-328** (-200)
Shaft Speed f/m (m/s): **2952** (15)
pH: **0 - 14**
Pressure psi (bar): **4351** (300) **1450** (100) **362** (25)



2255 - Synthetic Yarn Graphite, Lubricated

Temperature Limits °F (°C):
Max. **446** (230) Min. **-148** (-100)
Shaft Speed f/m (m/s): **1968** (10)
pH: **4 - 10**
Pressure psi (bar): **725** (50) **290** (20) **290** (20)



2020 - PTFE FDA Premium Pump Packing

Temperature °F (°C):
Max. **536** (280) Min. **-450** (-268)
Shaft Speed f/m (m/s): **3937** (20)
pH: **0 - 14**
Pressure psi (bar): **435** (30) **290** (20)



2005 - Expanded PTFE Yarn, Dry

Temperature °F (°C):
Max. **536** (280) Min. **-450** (-268)
Shaft Speed f/m (m/s): **984** (5)
pH: **0 - 14**
Pressure psi (bar): **3625** (250) **2175** (150) **290** (20)

Certified
FDA
BAM Tested



2006 - Expanded PTFE Yarn, FDA Approved (Lubricated)

Temperature °F (°C):
Max. **536** (280) Min. **-148** (-100)
Shaft Speed f/m (m/s): **2362** (12)
pH: **0 - 14**
Pressure psi (bar): **1450** (100) **435** (30) **435** (30)

Certified
FDA



2007 - Expanded PTFE with Graphite

Temperature °F (°C):
Max. **536** (280) Min. **-328** (-200)
Shaft Speed f/m (m/s): **4921** (25)
pH: **0 - 14**
Pressure psi (bar): **2900** (200) **1450** (100) **507** (35)



2070 - Expanded PTFE Graphite Yarn with Aramid Core

Temperature °F (°C):
Max. **536** (280) Min. **-148** (-100)
Shaft Speed f/m (m/s): **4921** (25)
pH: **0 - 14**
Pressure psi (bar): **3625** (250) **3625** (250) **507** (35)



2003 - PTFE with Aramid Corners

Temperature °F (°C):
Max. **536** (280) Min. **-148** (-100)
Shaft Speed f/m (m/s): **2362** (12)
pH: **2 - 12**
Pressure psi (bar): **2610** (180) **1450** (100) **435** (30)



2004 - Aramid Yarn with PTFE

Temperature °F (°C):
Max. **536** (280) Min. **-148** (-100)
Shaft Speed f/m (m/s): **2952** (15)
pH: **2 - 12**
Pressure psi (bar): **3625** (250) **2900** (200) **507** (35)



2017 - Expanded PTFE with Graphite and Aramid Corners

Temperature °F (°C): Max. **536** (280) Min. **-148** (-100)
Shaft Speed f/m (m/s): **3937** (20)
pH: **2 - 12**
Pressure (bar): **2900** (200) **2900** (200) **435** (30)



2019 - Synthetic Yarn with PTFE, Lubricated

Temperature °F (°C):
Max. **466** (230) Min. **-148** (-100)
Shaft Speed f/m (m/s): **2362** (12)
pH: **2 - 12**
Pressure psi (bar): **1450** (100) **1160** (80) **290** (20)



2044 - Braided Packing, Spun Aramid Yarn, PTFE Impregnated

Temperature °F (°C): Max. **536** (280) Min. **-148** (-100)
Shaft Speed f/m (m/s): **2950** (15)
pH: **2 - 12**
Pressure psi (bar): **2200** (150) **1150** (80) **290** (20)



2138 - Ramie Yarn, Paraffin Impregnated

Temperature °F (°C): Max. **212** (100) Min. -
Shaft Speed f/m (m/s): **1181** (6)
pH: **6 - 8**
Pressure psi (bar): **290** (20) **217** (15) **217** (15)



2773 - Novoloid Fiber Impregnated with PTFE, Graphite and Silicon Oil

Temperature °F (°C):
Max. **482** (250) Min. **-148** (-100)
Shaft Speed f/m (m/s): **3937** (20)
pH: **1 - 13**
Pressure psi (bar): **1740** (120) **870** (60) **290** (20)



2421 - Ramie Yarn, PTFE Impregnated

Temperature °F (°C): Max. **266** (130) Min. -
Shaft Speed f/m (m/s): **1968** (10)
pH: **5 - 11**
Pressure psi (bar): **450** (30) **290** (20) **290** (20)



2774 - Phenolic Fiber Impregnated with PTFE and Mineral Lubricant

Temperature °F (°C): Max. **482** (250) Min. **-148** (-100)
Shaft Speed f/m (m/s): **2952** (15)
pH: **1 - 13**
Pressure psi (bar): **1740** (120) **870** (60) **290** (20)



2848 - Flexible Graphite with ePTFE Jacket (Low Emission)

Temperature °F (°C): Max. **851** (455) Min. **-400** (-240)
Shaft Speed f/m (m/s): -
pH: **0 - 14**
Pressure psi (bar): **4000** (255) **-** **-**

GASKET MATERIALS

NA1001 - Aramid Fiber, NBR

Temperature	Continuous: up to 464°F (240°C) Maximum: up to 716°F (380°C)
Pressure	Continuous: up to 725 psi (50 bar) Maximum: up to 1595 psi (110 bar)

Color: Green, White, or Blue



NA1076 - Aramid Fiber, Neoprene Binder

Temperature	Continuous: up to 392°F (200°C) Maximum: up to 698°F (370°C)
Pressure	Vacuum: to 725 psi (50 bar)

Color: Black



NA 1081 - Aramid Fiber, NBR

Temperature	Continuous: up to 500°F (260°C) Maximum: up to 716°F (380°C)
Pressure	Continuous: up to 725 psi (50 bar) Maximum: up to 1595 psi (110 bar)

Color: Blue



NA1085 - Aramid Fiber, CSM Binder

Temperature	Continuous: up to 392°F (200°C) Maximum: up to 464°F (240°C)
Pressure	Continuous: up to 725 psi (50 bar) Maximum: up to 1015 psi (70 bar)

Color: Cobalt Blue



NA 1100 - Carbon Fiber, NBR

Temperature	Continuous: up to 518°F (270°C) Maximum: up to 842°F (450°C)
Pressure	Continuous: up to 1015 psi (70 bar) Maximum: up to 1885 psi (130 bar)

Color: Black



NA 1000M - Aramid Fiber with Wire Mesh, NBR

Temperature	Continuous: up to 392°F (200°C) Maximum: up to 716°F (380°C)
Pressure	Continuous: up to 580 psi (40 bar) Maximum: up to 1450 psi (100 bar)

Color: Dark Gray



NA 1122M - High Performance Sheet, NBR w/ metal insert

Temperature	Continuous: up to 806°F (430°C) Maximum: up to 1022°F (550°C)
Pressure	Continuous: up to 1480 psi (102 bar) Maximum: up to 2176 psi (150 bar)

Color: Dark Grey



NA1035 - Aramid Fiber, SBR

Temperature	Continuous: up to 464°F (240°C) Maximum: up to 700°F (371°C)
Pressure	Continuous: up to 725 psi (50 bar) Maximum: up to 1015 psi (70 bar)

Color: Off White - NA1035W or Grey/Black - NA1035B



NA1080- Aramid Fiber, SBR

Temperature	Continuous: up to 518°F (270°C) Maximum: up to 716°F (380°C)
Pressure	Continuous: up to 725 psi (50 bar) Maximum: up to 1015 psi (70 bar)

Color: Off White

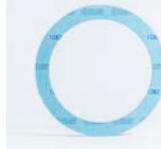


1082 SAN - Sanitary Service Gasket Material

Temperature	Continuous: up to 500°F (260°C) Maximum: up to 716°F (380°C)
Pressure	Continuous: up to 1160 psi (80 bar) Maximum: up to 1595 psi (110 bar)

Color: Blue

Note: NSF-61 Certified



NA1088 - Controlled Swell Sheet

Temperature	Continuous: up to 400°F (205°C) Maximum: up to 650°F (343°C)*
Pressure	Continuous: up to 500 psi (34.5 bar) Maximum: up to 1000 psi (69 bar)

Color: Beige/Off White



NA 1122 - High Performance Sheet, NBR

Temperature	Continuous: up to 806°F (430°C) Maximum: up to 1022°F (550°C)
Pressure	Continuous: up to 1480 psi (102 bar) Maximum: up to 2176 psi (150 bar)

Color: Dark Grey



Sheet Size Availability

Sizes:	59"x63" 59"x126"	Thickness (in): 1/64, 1/32, 1/16, 1/8, 1/4, 3/32, 3/16
		*Consult with Teadit Engineering. Values are based on short term and peak conditions
	118x126***	**size available only for NA1001

Other sizes are available upon request.



High Temperature TerMica Gasketing Material



TM1860

Temperature Maximum: up to **1832°F** (1000°C)
 Pressure Maximum: up to **72 psi** (5 bar)
 Color: Tan with Green Tint

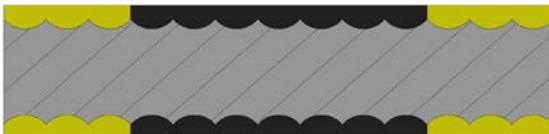


TM1863 w/ 316 Tang Insert

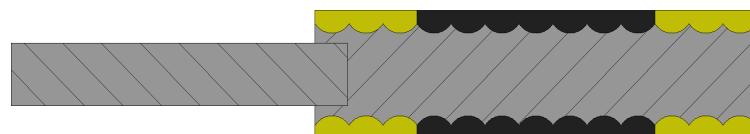
Temperature Maximum: up to **1832°F** (1000°C)
 Pressure Maximum: up to **391 psi** (27 bar)
 Color: Tan with Green Tint

Sheet Size Availability

Size 39.4"x47" Thickness 1/16, 1/8, .040", .020"



STYLE 942-XHR



STYLE 946-XHR



STYLE 913M-XHR

942 XHR/ 946 XHR

Temperature Maximum: up to **1500+°F** (815+°C)

913M XHR

Temperature Maximum: up to **1500+°F** (815+°C)

GRAPHITE PRODUCTS



GR 1700 - High Temp Flexible Graphite Sheet with Multiple Foil Inserts, Oxidation Inhibited

Temperature °F (°C):
 Minimum **-418** (-250)
 Maximum **1202** (650)
 Pressure psi (bar): **3625** (250)



GR 1660 / 2660 - Homogeneous Flexible Graphite Sheet

Temperature °F (°C): Minimum **-328** (-200)
 Maximum:
 in Air **842** (450)
 in Steam **1202** (650)
 in Reducing or inert media **5432** (3000)
 pH: **0 - 14** Pressure psi (bar): **2030** (140)



GR 1701 - High Temp Flexible Graphite Sheet with Multiple Foil Inserts

Temperature °F (°C):
 Minimum **-418** (-250)
 Maximum **1202** (650)
 Pressure psi (bar): **3625** (250)



GR 1663 / 2663 Flexible Graphite Sheet 316SS Tang Insert

Temperature °F (°C): Minimum **-328** (-200)
 Maximum:
 in Air **842** (450)
 in Steam **1202** (650)
 in Reducing or inert media **5432** (3000)
 pH: **0 - 14** Pressure psi (bar): **2030** (140)



GR 1661 / 2661 - Stainless Steel Flexible Graphite Sheet Foil Insert

Temperature °F (°C): Minimum **-328** (-200)
 Maximum:
 in Air **842** (450)
 in Steam **1202** (650)
 in Reducing or inert media **5432** (3000)
 pH: **0 - 14** Pressure psi (bar): **2030** (140)

Sheet Size Availability

Size 39"x39", 60"x60"

Thickness (in): 1/32, 1/16, 1/8, 1/4*

* 1/64, 3/32, 3/16 available on special request.

Flexible Graphite Tape



GR 2550 - Crinkled Flexible Graphite Tape (No Adhesive)

Temperature °F (°C): Minimum **-328** (-200)
 Maximum: In Air **842** (450)
 In Steam **1202** (650)
 In reducing or Inert Media **5432** (3000)
 Pressure psi (bar): **2000** (137)



GR 2551 - Crinkled Flexible Graphite Tape (Adhesive)

Temperature °F (°C): Minimum **-328** (-200)
 Maximum: In Air **842** (450)
 In Steam **1202** (650)
 In reducing or Inert Media **5432** (3000)
 Pressure psi (bar): **2000** (137)

Low Emission Products

STYLE 2236



Valve Stem Packing, Flexible Graphite, Inconel®

Style 2236 is ideal for valves and can be used within a broad range of applications. It is well suited for power plants, refineries, petrochemical industries, chemical processing as well as sealing applications in steam at high pressure and temperatures. This product is self-lubricating, non-hardening, dimensionally stable and resistant to gases and fluids as well as heat, pressure and chemicals. The Inconel® filament jacket affords mechanical stability and resists extrusion. The advanced construction provides leakage control and has high integrity in steam service.

KEY FEATURES

- Certified Low-Leakage Packing Technology
- TA-Luft approved
- Suitable to VOC and VHAP emissions regulation
- Environmentally friendly valve stem packing with extreme emissions control.
- API 622
- utilized in API 624
- API 607
- ISO 15848

Service Limits		
Temperature °F (°C)	Minimum	-400°F (-240°C)
	Maximum	851°F (455°C)
	Steam	1202°F (650°C)
Pressure PSI (bar)	Valve	6526 (450)
pH		0-14

STYLE 2848



Fully Traceable Valve Stem Packing, Flexible Graphite, ePTFE

Style 2848 is braided from proprietary yarn made of flexible graphite, reinforced with an innovative polymeric structure. Designed for control and isolating valves alike, Teadit's 2848 has proven superior performance on ISO 15848-1, one of the industry's most stringent test procedures, endurance class of CC3, as well as, achieving success on API 622 3rd edition.

Teadit's 2848 has a design that allows the packing to meet strict fugitive emissions service requirements WITHOUT the need for metallic reinforcements, which are commonly used in this type of packing design.



Each yarn is embedded with Teadit TAGS™, creating a uniquely identifiable fingerprint. Teadit TAGS™ allow Teadit 2848 to be identified in any situation - even when both packing and valve tags are lost! This traceable and unique fingerprint avoids warranty claim complications that often emerge from incorrect product identification.

Temperature Limits	
Minimum	-400°F (-240°C)
Maximum	851°F (455°C)
pH	0-14

ECOTAPE

Thread Seal Tape made from Expanded PTFE combined with Graphite



ECOTAPE-LE is manufactured to provide an advanced structural matrix which incorporates Graphite into the Expanded PTFE. Due to the excellent properties of PTFE and graphite, this combination ensures a wide degree of chemical resistance, low coefficient of friction, excellent heat dissipation due to the high thermal conductivity of graphite and superior mechanical resistance. Our unique manufacturing process provides the final product a high degree of integrity proven to supply the sealing solution for thread seal tape.



Temperature Limits

Minimum	536°F (280°C)
pH	0-14

913M

Low Emission Spiral Wound

Teadit's standard 913M has proven low-emission performance. Teadit Research & Development has discovered that density of the sealing element, a well-defined preformed metallic strip, and an enhanced soft filler material configuration, along with mandatory outer and inner rings, together play key roles in achieving sealing ability which can meet even the most stringent fugitive emission requirements.

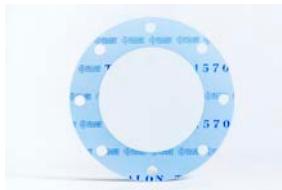
Furthermore, the design provides low-emission performance at a level significantly below the minimum ASME seating stress rating for spiral wound gaskets – making the 913M a truly low seating stress design!



Spiral Wound:
Conventional vs. New Technology - 913M.
Increase of metal winding, higher density.

PTFE Products

RESTRUCTURED PTFE-TEALON®



TEALON® TF1570

Application: The high compressibility of this style makes it particularly suitable for use with stress sensitive and/or fragile flanged joints, e.g. glass, plastic, etc.

Temperature Limits °F (°C):
Max. **500** (260) Min. **-450** (-268)
Max. Pressure psi (bar): **800** (55)
pH: **0 - 14**



TEALON® TF1580

Application: It is suitable for general service in a wide variety of fluids, strong caustics, moderate acids, chlorine, gases, water, steam, hydrocarbons, hydrogen and aluminum fluoride.

Temperature Limits °F (°C):
Max. **500** (260) Min. **-450** (-268)
Max. Pressure psi (bar): **1200** (83)
pH: **0 - 14**



TEALON® TF1590

Application: Restricted PTFE suitable for service with high pressures and temperatures, especially in chemical processing.

Temperature Limits °F (°C):
Max. **500** (260) Min. **-450** (-268)
Max. Pressure psi (bar): **1200** (83)
pH: **0 - 14**



TEALON® TF1560 Monomer Service

Application: It is recommended for applications where media permeation through the gasket is not acceptable.

Temperature Limits °F (°C):
Max. **500** (260) Min. **-450** (-268)
Max. Pressure psi (bar):
725 (50)
pH: **0 - 14**

Tealon Availability

Sheet Size 60"x60"*

Thickness 1/32, 3/32, 1/16, 1/8, 1/4

Tests and Approvals: FDA, TA-Luft, DVGW, BAM, Chlorine Institute, ROTT and HOBT-2

TF1560 Availability

Sheet Size 40"x40"*

Thickness 1/16, 1/8, 1/4



TEALON® TF 1572 SAN

Application: Specifically formulated to allow compliance for drinking water system components with NSF-61. An added benefit is that TF 1572 SAN has a strong dielectric rating.

Temperature Limits °F (°C):
Max. **500** (260) Min. **-450** (-268)
Max. Pressure psi (bar): **800** (55)
pH: **0 - 14**



Certified to
NSF/ANSI/CAN 61

HOT COMPRESSION TEST

This performance test measures the behavior of rPTFE and PTFE gaskets in a real world environment. The chart below shows a comparison between conventionally skived PTFE Tealon. The gaskets were installed simulating a real world application including thermo-cycling. The skived PTFE gasket showed a very high leak rate, losing 60% of its initial pressure by the end of the test. The Tealon gasket lost only 6% of its initial pressure by the end of the test and showed a leak 10 times less than that of the skived PTFE gasket. The picture on the left shows the gasket after the test and exhibits the dimensional stability of Tealon as compared to the noticeable creep of the skived PTFE gasket.



PHYSICAL PROPERTIES	TEST METHOD	TEALON®*1570	TEALON®*1580	TEALON®*1590
Color		Blue	White/Yellow	Fawn
Sealability (ml/hr)	ASTM F 37	0.12	0.04	0.20
Creep Relaxation (%)	ASTM F 38	40	24	18
Compressibility Range (%)	ASTM F 36	30-50	4-10	7-12
Recovery Min. (%)	ASTM F 36	30	40	40
Tensile Strength psi (N/mm ²)	ASTM F 152	2030 (14)	2030 (14)	2030 (14)

Expanded PTFE Products

24SH

100% Expanded PTFE Sheet
 Temperature Limits °F (°C):
 Short Term Max. **600** (315)
 Minimum. **-450** (-268)
 Max. Pressure psi (bar): **2900** (200)

pH: **0 - 14**

24A

Expanded PTFE Valve Stem Packing
 Temperature Limits °F (°C):
 Short Term Max. **600** (315)
 Minimum. **-450** (-268)
 Max. Pressure psi (bar): **1450** (100)

pH: **0 - 14**

24BB

Expanded PTFE Gasket Tape
 Temperature Limits °F (°C):
 Short Term Max. **600** (315)
 Minimum. **-450** (-268)
 Max. Pressure psi (bar): **2900** (200)

pH: **0 - 14**

24B

Expanded PTFE Joint Sealant
 Temperature Limits °F (°C):
 Short Term Max. **600** (315)
 Minimum. **-450** (-268)
 Max. Pressure psi (bar): **2900** (200)

pH: **0 - 14**

24SH Availability

Sheet Size (in)	59x59
Thickness	1/4", 1/8", 1/16", 1mm, .5mm

Tests and Approvals: TA-Luft, Blow-Out-Test VDI 2200, FDA, USP Plastic Class VI, Germanischer Lloyd, WRc, BAM, AREVA

** 1/32, 3/32 available on special request.

24A Availability

Width (in)	1/16	3/32	1/8	5/32	3/16	7/32	1/4	9/32	5/16	3/8	1/2	5/8
Spool Length (ft)	50	25 or 50	25	25	25	15	12	9	7	7	12	9

24BB Availability

Width (in)	1/2", 3/4", 1", 2"	1/2", 3/4", 1", 2", 4", 6", 8"		
Thickness (in)	.020" (= 5mm)	.040" (= 1.0mm)		
Spool Length (ft)	100'	50'		25'

Tests and Approvals: WRc

* other sizes are available upon request.

24B Availability

Width (in)	1/8	3/16	1/4	3/8	1/2	5/8	3/4	1
Thickness (in)	.059	.079	.098	.118	.158	.236	.276	.197
Spool Length (ft)	50, 100, 500	75, 150, 750	50, 100, 500	25, 50, 250	15, 30, 150	15, 30, 150	15, 30, 100	15, 30, 75

* other sizes are available upon request.

25BI

Multi-Directionally Expanded Gasket Tape
 Temperature Limits °F (°C):
 Short Term Max. **600** (315)
 Minimum. **-450** (-268)
 Max. Pressure psi (bar): **2900** (200)
 pH: **0 - 14**

25BI Availability

Width (in)	1/2, 3/4, 1	1 1/2	2
Thickness (in)	1/16, 1/8, 1/4	1/8, 1/4	1/4
Spool Length (ft)		15, 25, 50	

* other sizes are available upon request.

Tests and Approvals: FDA, TA-Luft

Metallic Gaskets



911/ 911M/ 911T



This is the simplest style of spiral wound gasket, consisting of a circular winding without guide or inner rings. Spiral wound gaskets Style 911 are mainly used in tongue and groove or male and female flanges. They are also used in equipment with space and weight limitations. Special flange machining may be necessary (contact Teadit Technical Dept).

A style 911-M gasket is a sealing winding with an inner ring.

Style 911-T has better sealability than a conventional heat exchanger double-jacketed gasket. However, a specially machined groove with an appropriate compression stop is needed for 911-T.

914

Style 914 spiral wound gaskets are windings in non-circular forms like oval, rectangular and square with rounded corners, diamonds, oblong or pear shaped. Style 914 gaskets are used in boiler handholes and manholes, equipment, engine head-gaskets and exhaust systems. Inner rings should also be used for many of these applications.



DOUBLE JACKETED GASKETS

920 Round Single Jacketed Gasket

The style 920 is a round single jacket gasket. Used in applications where the seating stress and width are limited. It can be manufactured in circular or oval shape. The maximum gasket width is 1/4 (6.4 mm) and the standard thickness is 3/32 in (2.4 mm).

923 Double Jacketed Gasket

The style 923 is a flat double jacket gasket. Its most typical applications are in Heat Exchangers. ASME B 16.20 shows the gasket dimensions for ANSI B 16.5 flanges. The standard thickness is 1/8 in (3.2 mm). This style is also used in large size reactors in chemical plants. Another important use is for flanges in the large, low pressure ducting in Steel Mill Blast Furnaces. To compensate for distortions and irregularities of these flanges, gaskets are 5/32" (4 mm) to 1/4" (6 mm) thick.

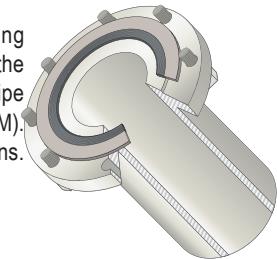


923
Double Jacket



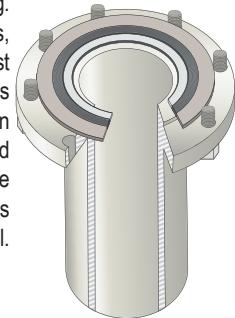
913

The construction of this gasket is circular metal winding with an outer guide ring. The sealing element is made of the specified metal and soft sealing material. The standard pipe size gaskets are made to ASME B16.20 (see also style 913M). These gaskets are used in a very wide variety of applications.



913M

The 913M is the standard spiral wound gasket with an inner ring. The purpose of this ring is to fill out the space between the flanges, avoiding turbulence in the flow of the fluid or as protection against corrosion or erosion. It is also used as a compression limit. Gaskets with PTFE filler have a tendency to inward buckle thus the use of an inner ring is required by ASME B16.20. Inner rings are also required with ASME standard spiral wound gaskets with flexible graphite fillers unless the purchaser specifies otherwise and some sizes and pressure class require inner rings regardless of filler material.



926 Corrugated Jacketed Gasket with FG Filler

Similar to style 923 but the metallic jacket is corrugated. The corrugations act as a labyrinth.

927 Double Jacketed facing with FG

Similar to style 923 with addition of flexible graphite facing.

927



Double Jacket with
graphite facing

929 Corrugated Jacketed Gasket with Corrugated Filler

Similar to style 926 with a corrugated metallic filler. Used in applications where it is necessary to have a gasket without non-metallic materials, temperature limits and chemical resistance depend upon the metal only.

CAMPROFILE GASKETS - Excellent Results in Critical Applications

STYLE 942, 946

Teadit® Camprofile gaskets offer outstanding flexibility and recovery, assuring seal integrity under pressure and temperature fluctuations, flange rotation, bolt stress relaxation and creep.

Teadit® Camprofile gaskets are used by the chemical and petrochemical industry, as well as in power stations and refineries, on both standard pipework and special applications, e.g. shell and tube heat exchangers, etc.. Camprofile gaskets are constructed from a precision serrated metallic core with soft facing materials - flexible graphite or expanded PTFE - bonded to either side.

Depending on the kind of metal used, Teadit® Camprofile gaskets can be used

for all media from pH 0 to 14.

Teadit® Style 942 is designed to be used in most male/female and tongue and groove flanges in heat exchangers.

Teadit® Style 946 is designed to be used in RF or FF faced flanges like ASME B16.5 or ASME B16.47.

The loose fitting outer ring allows for the thermal expansion of the serrated core.



942



946

with outer ring



STYLE 905

Corrugated metal gaskets with Flexible Graphite or ePTFE facings, style 905 Metalbest, have gained popularity in the marketplace due to their ability to seal at low bolt loads.

One of the most frequent uses of Style 905 Metalbest Gaskets are in Shell and Tube Heat Exchangers, due to their ability to avoid mechanical shearing problems associated with other gasket types in heavy thermal cycling applications. The standard core material is 316L Stainless Steel and the covering layer is Flexible Graphite. Other alloys and covering layers are available upon request.

COLOR CODING CHART

Material	O.D. Ring Color
304 Stainless Steel	Yellow
316L Stainless Steel	Green
317L Stainless Steel	Maroon
321 Stainless Steel	Turquoise
347 Stainless Steel	Blue
MONEL ®	Orange
Nickel	Red
Titanium	Purple
Alloy 20	Black
INCONEL ® 600	Gold
HASTELLOY ® B	Brown
HASTELLOY ® C	Beige
INCOLOY ® 800	White
Material	Strip Color
Flexible Graphite	Gray
PTFE	White
Ceramic	Lt. Green

SOLID METALLIC GASKET

STYLE 940

Style 940 is a solid metallic gasket that has a smooth sealing surface and can be manufactured practically in any shape. Typical applications are in valves, heat exchangers, hydraulic presses and tongue and groove flanges. The strong points are mechanical and chemical attack resistance and they can be used in elevated temperature and pressure service. The width of the gasket sealing surface should be at least equal to 1.5 times its thickness. These gaskets, depending upon their material, have high maximum seating stress.



Style 940

Other Teadit Products



Ring Joints

Metallic Ring-Joints are produced according to the standard established by the American Petroleum Institute, API 6A and API 17D and the American Society of Mechanical Engineers, ASME B16.20, for applications at elevated temperatures and/or pressures. A typical application of Ring-Joints is the "Christmas Tree" used in oil fields.

The seal is obtained in a line of contact by a wedge action with high seating pressures thus, forcing the gasket material to flow. The small sealing area with high contact pressure results in great reliability. However the contact surfaces of the gasket and the flange should be carefully finished. Some styles of Ring-Joints are pressure activated, that is, the greater the pressure the better the sealability.

STYLE 950

Ring with oval section (Figure 1).

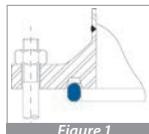


Figure 1

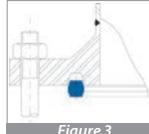


Figure 3

STYLE 952 BX

It has a square cross section with bevelled corners (Figure 3).

STYLE 951

Ring with octagonal section (Figure 2).

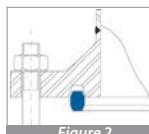


Figure 2

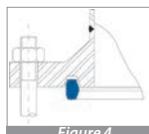


Figure 4

STYLE 953 RX

It is designed to use the fluid pressure to increase the sealability (Figure 4).

FLANGE PROTECTOR

It is a fact, that in certain circumstances in the industrial process, spray fluid might occur. Flange Protectors can help to minimize the impact that this accident can cause to the environment and the operators working nearby. Teadit Flange Protectors are designed to contain such chemical spray within the flange protector, preserving the integrity of the operators and the environment. In the meantime it gives the operator time to safely intervene on the flange without exposing him or herself to the spray fluid.



Step One



Step Two



Step Three

FIRESAFE

FIRESAFE Fire Protector are manufactured by combining multiple layers of technical fabrics that form a protective barrier. This barrier prevents direct exposure to a possible fire on the screws of the Wafer valve, thermal expansion of the bolts and leakage of the fluid into the environment.

Each fabric layer has a function, fire barrier (inner layer) to the weathering and ultra violet resistance (outside layer), which makes double protection: from inside to outside and from outside to inside.

It is closed and sealed with velcro and clamps. It is easy to install and quick to remove for maintenance of the valve.



Valve with and without the installed **FIRESAFE** Fire Protector.

The best investment for the safety of your company and your employees

Other Teadit Products

Metallic Expansion Joints

Teadit has a diversified product line of metallic expansion joints including: Single Axial, Hinged, Pressure Balanced and Gimbal. Metallic Expansion Joints are designed by highly skilled engineers and technicians. The Expansion joints will solve thermal expansion and vibration issues in the toughest operating conditions. They are manufactured according to the standards EJMA and ASME.



Flue Duct Expansion Joints

Flue Duct Expansion Joints were developed to work in stringent service conditions. They are manufactured in round, square, or rectangular shapes. Some of the industries that utilize Flue Duct expansion joints are Pulp and Paper, Petrochemical, Cement, Refineries and Food Product Plants. Flue Duct Expansion Joints are used in boilers, gas turbines, incinerators and foundry ducts.



Teadit is a global leader in the development and production of a broad range of sealing solutions. Our mission is to assist you in achieving leak-free and low-emission levels of performance.



The application parameters indicated in this brochure are typical. Specific applications should be looked at independently for an evaluation on compatibility. Please consult Teadit engineering for recommendations about specific use.

BRAZIL • ARGENTINA • USA • AUSTRIA • INDIA

Houston, USA

10545 Red Bluff Road - Pasadena, Texas 77507

Tel: (281) 476-3900

Fax: 281-476-3999 • 800-999-0198

sales@teadit.com

www.teadit.com