

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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EXPANDED 24SH 24B [™] 24BB 24A 25BI METALLIC C 911 911M 911T 913 913M 914 920/923/926/ 927/929 942/946 905 940 OTHER PR	PTFE Expanded PTFE Gasket Sheet Expanded PTFE Joint Sealant Expanded PTFE Tape Expanded Valve Stem Packing Multidirectional Expanded PTFE Gasket Tape SASKETS Winding Winding with Inner Ring Winding with Inner Ring Spiral Wound Gasket with Outer Ring Spiral Wound Gasket with Outer Ring and Inner Ring Winding for Hand Holes/Manways, etc. Double Jacketed Gaskets Metalbest Solid Metal Ring ODUCTS	P.7 P.7 P.7 P.7 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8			
EXPANDED 24SH 24B [™] 24BB 24A 25BI METALLIC C 911 911M 911T 913 913M 914 920/923/926/ 927/929 942/946 905 940 OTHER PR Ring Joints	PTFE Expanded PTFE Gasket Sheet Expanded PTFE Joint Sealant Expanded PTFE Tape Expanded Valve Stem Packing Multidirectional Expanded PTFE Gasket Tape SASKETS Winding Winding with Inner Ring Winding with Inner Ring Spiral Wound Gasket with Outer Ring Spiral Wound Gasket with Outer Ring and Inner Ring Spiral Wound Gasket with Outer Ring and Inner Ring Winding for Hand Holes/Manways, etc. Double Jacketed Gaskets Camprofile Gaskets Metalbest Solid Metal Ring	P.7 P.7 P.7 P.7 P.7 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8			
EXPANDED 24SH 24B [™] 24BB 24A 25BI METALLIC (911 911M 911T 913 913M 914 920/923/926/ 927/929 942/946 905 940 OTHER PR Ring Joints Flange Protect	PTFE Expanded PTFE Gasket Sheet Expanded PTFE Joint Sealant Expanded PTFE Tape Expanded Valve Stem Packing Multidirectional Expanded PTFE Gasket Tape SASKETS Winding Winding with Inner Ring Winding with Ribs Spiral Wound Gasket with Outer Ring Spiral Wound Gasket with Outer Ring and Inner Ring Winding for Hand Holes/Manways, etc. Double Jacketed Gaskets Metalbest Solid Metal Ring ODUCTS	P.7 P.7 P.7 P.7 P.7 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8			
EXPANDED 24SH 24B [™] 24BB 24A 25BI METALLIC C 911 911M 911T 913 913M 914 920/923/926/ 927/929 942/946 905 940 OTHER PR Ring Joints Flange Protector Fire Protector	PTFE Expanded PTFE Gasket Sheet Expanded PTFE Joint Sealant Expanded PTFE Tape Expanded Valve Stem Packing Multidirectional Expanded PTFE Gasket Tape SASKETS Winding Winding with Inner Ring Winding with Ribs Spiral Wound Gasket with Outer Ring and Inner Ring Spiral Wound Gasket with Outer Ring and Inner Ring Winding for Hand Holes/Manways, etc. Double Jacketed Gaskets Kamprofile Gaskets Metalbest Solid Metal Ring DUUCTS	P.7 P.7 P.7 P.7 P.7 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8 P.8			

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 **Oracle 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 ^oF (^oC): Max. 851 (455) Min. -400 (-240) Steam 1202 (650) pH: **0 - 14** Pressure psi (bar): 📕 6526 (450)



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 Certified Pressure psi (bar): 4 5800 (400) 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 ⁰F (⁰C): 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 ^oF (^oC): Max. 446 (230) Min. -148 (-100) Shaft Speed f/m (m/s): 1968 (10) pH: 4 - 10 Pressure psi (bar): 4 725 (50) 290 (20) 2 290 (20)



2020 - PTFE FDA Premium Pump Packing

Temperature ⁰F (⁰C): 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

Tem



Iemperature °F (°C):	Certified
Shaft Speed f/m (m/s): 984 (5)	FDA BAM Tested
Pressure psi (bar): A 3625 (250)	2175 (150) 290 (20)

2006 - Expanded PTFE Yarn, FDA Approved (Lubricated)



Temperature °F (°C): Certified Max. 536 (280) Min. -148 (-100) FDA Shaft Speed f/m (m/s): 2362 (12) pH: 0 - 14 Pressure psi (bar): **41450** (100) **435** (30)

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 ^oF (^oC): 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): 42900 (200) 2900 (200) 435 (30)

2773 - Novoloid Flber 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): 4 1740 (120) 870 (60) 2 290 (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): 4 1740 (120) 870 (60) 2 290 (20)

JAMPAK Injectable Packing

Teadit's JAMPAK injectable pump and valve sealing system has been and continues to be a leading edge technology for Teadit worldwide. JAMPAK combines the unique ability to repack pumps and valves on-line with conventional packing technology. The attributes expressed give you, our customer, the ability to continue operating as new JAMPAK material is installed through our injection process.

In all, JAMPAK provides reduced operating cost, saving on energy consumption, and reduction of downtime along with a reduced need for equipment repair, rework or overhaul.



A blend of high-performance PTFE fibers and chemically resistant lubricants. Color: Black



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)

2138 - Ramie Yarn, Paraffin Impregnated



Temperature ⁰F (⁰C): Max. 212 (100) Min. -Shaft Speed f/m (m/s): 1181 (6) pH: 6 - 8 . Pressure psi (bar): 🚣 290 (20) 🔎 217 (15) 🖉 217 (15)



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)

-Centrifugal pumps Rotating equipment; -Reciprocating equipment Valves. **Product Service:** -Sea Water -Brine -Acids/Caustic -Alkalis -Certain Solvents

Applications:

PORTABLE PACKING CUTTER



Packing Cutter is made out of special and highly resistant plastic; it is light and it can be adjusted for cutting angles of 45° and 90°. It provides rapid and perfect cuts, without leaving burrs.

GASKET MATERIALS

NA1001 - Aramaid 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

Tomo orokuno	Continuous: up to 500°F (260°C)
remperature	Maximum: up to 716°F (380°C)
Pressure	Continuous: up to 725 psi (50 bar)
Pressure	Maximum: up to 1595 psi (110 bar)
Color: Blue	

0



NA1085 - Aramid Fiber, CSM Binder

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



NA 1100 - Carbon Fiber, NBR

Tamaaahun	Continuous: up to 518°F (270°C)
remperature	Maximum: up to 842°F (450°C)
P	Continuous: up to 1015 psi (70 bar)
Pressure	Maximum: up to 1885 psi (130 bar)
Color: Black	

Color: Black



NA 1000M - Aramid Fiber with Wire Mesh, NBR

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

Color: Dark Gray



NA1035 - Aramid Fiber, SBR

	Maximum: up to 1015 ps	i (70 bar)
Prossuro	Continuous: up to 725 psi	(50 bar)
	Maximum: up to 700°F	(371°C)
Tomporatura	Continuous: up to 464°F	(240°C)

ol. Off White - NA1035W or Grey/Black - NA1035B

NA1080- Aramid Flber, SBR

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

Color: Off White

1082 SAN - Sanitary Service Gasket Material

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Continuous: up to 500°F (260°C) Temperature Maximum: up to 716°F (380°C) Continuous: up to 1160 psi (80 bar) Pressure Maximum: up to 1595~psi~(110~bar)Color: Blue Note: NSF-61 Certified

NA1088 - Controlled Swell Sheet

Townstein	Continuous: up to 400°F (205°C)
Temperature	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)
2	Continuous: up to 1480 psi (102 bar)
Pressure	Maximum: up to 2176 psi (150 bar)
	·

Color: Dark Grey

Sheet Size Availabilty

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



High Temperature TerMica Gasketing Material



2000 (137)

Pressure psi (bar):

	(Auliesive)			
	Temperature ^o F (^o C): Minimum.	-328 (-200)		
	Maximum: In Air	8	42 (450)	
	In Steam	1202 (650)		
	In reducing or Iner	Media 54	432 (3000)	
2	Pressure psi (bar):	2	000 (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.



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

ЕсоТаре

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 best sealing solution for thread seal tape.

Temperature Limits				
Minimum	536°F (280°C)			
рН	0-14			





Low Emission Spiral Wound



The Metalflex 913M-LE spiral wound gasket is a major improvement on the traditional ASME B16.20 design. Where the traditional design is based primarily on dimensional criteria, the 913M-LE takes this and adds 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-LE a truly low seating stress design!



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

PTFE Products

RESTRUCTURED PTFE-TEALON®



TEALON® TF1570

Application: The high compressibility of this style makes it particularly suitable 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 Availability

Tests and Approvals:

* 59"x59" is available upon request.

Sheet Size



TEALON® TF1580

Application: It is suitable for general service in a wide variety of fluids, strong caustics, for use with stress sensitive and/or fragile moderate acids, chlorine, gases, water, steam, hydrocarbons, hydrogen and aluminum flouride.

> Temperature Limits ^oF (^oC): Max. 500 (260) Min. -450 (-268) Max. Pressure psi (bar): 1200 (83) pH: 0 - 14

62"x62"* Thickness 1/32, 3/32, 1/16, 1/8, 1/4 FDA, TA-Luft, DVGW, BAM, Chlorine Institute, ROTT and HOBT-2



TEALON® TF1590

Application: Restructed 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 ⁰F(⁰C): Max. 500 (260) Min. -450 (-268) Max. Pressure psi (bar): 725 (50) pH: 0 - 14

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 dieletric rating.

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

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, loosing 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				24SH Ava	ailabi	lity									
Course San Course I Course San Course	100% Expanded PTFE Sheet Temperature Limits ^o F (^o C): Short Term Max. 600 (315) Minimum. -450 (-268) Max. Pressure psi (bar): 2900 (200)		100% Expanded PTFE Sheet Temperature Limits ⁰F (⁰C):		100% Expanded PTFE Sheet Temperature Limits ^o F (^o C):			Sheet Size Thickness	(in)		59x5 1/4",	9 1/8", 1/16	"**, 1n	ım, .5mm		
5.			00 (200)	pH: 0 - 14	Tests and A Germanischer ** 1/32, 3/32 availal	pprov Lloyd, V e on specia	als: TA-L /Rc, BAM al request.	uft, Blov AREVA	v-Out-Test	VDI 2	200, FDA	, USP I	Plastic Cl			
	24A															
	Expanded PTFE Valve Stem Packing			24A Avai	labili	ty										
A	Temperatur	e Limits °F (°C):	Packing		Width (in)	1/1	6 3/32	1/8	5/32 3/10	6 7/32	1/4 9/32	2 5/16	3/8 1/2			
	Short Term Minimum	Max. 600 (315) 450 (-268)	50 (100)	nH: 0 - 14	Spool Leng (ft)	oth 50	25 or §	60 25	25 25	15	12 9	7	7 12			
	Max. 1 1000		(100)													
	24BB				24BB Av	ailabi	lity									
	Expanded	PTFE Gasket Tap	De		Width (in)		1/2", 3/4	', 1", 2 "		1/2"	, 3/4", 1",	2", 4"	6", 8"			
	Short Term	re Limits °F (°C): Max. 600 (315)			Thickness	(in)	.020" (=	5mm)	.040" (=	1.0mr	n) 1/16"	= 1.5n	ım) 1/8"			
-	Minimum Max Press	-450 (-268)	00 (200)	nH: 0 - 14	Spool Leng	gth (ft)	10	D'			50'					
	Max. 1 1633	lax. Pressure psi (bar): 2900 (200) pH:	pri. U - 14	Tests and A * other sizes are ava	pprov ailable upo	als: WRo	;									
	24B ™															
5	Expanded F Temperatur Short Term Minimum	PTFE Joint Sealar e Limits ^o F (^o C): Max. 600 (315) 450 (-268)	nt (200)		Tests and TA-Luft, ARE	I Appro EVA	ovals: B	AM, DVO	GW, WRc,	BOC,	FDA (incl	adhes	ive backi			
	Wax. Press	ure psi (bar). 290	0 (200)	pn. U - 14												
246		ability	1	1	1		1				1					
Wid	th (in)	1/8	3/16	1/4	3/8	1/:	2	5/8		3/4		1	_			
Thic	kness (in)	.059	.079	.098	.118	.15	8	.236		.276		.197				
Spo	ol	50, 100, 500	75, 150, 750	50, 100, 500	25, 50, 250	15, 30	, 150 1	5, 30, 1	50 15	30, 10	00 15	, 30, 7	5			

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**

Tests and Approvals: FDA, TA-Luft

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.

Metallic Gaskets

SPIRAL WOUND GASKETS - Sealing solutions for Industries

Introduction

The TEADIT® plant has manufactured spiral-wound gaskets since 1965. It is located in the largest and most progressive industrial and metallurgical complex in Brazil.

In 1975, TEADIT® moved into its present, modern facilities. The plant was further enlarged in 1982 when TEADIT® merged with another company which was engaged in the manufacture of metal expansion joints, shock absorbers and special bellows. Today, TEADIT® is one of the largest fabricators of spiral-wound gaskets, expansion joints and bellows in the world.

911/ 911M/ 911T

913

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 sealabilty than a conventional heat exchanger double-jacketed gasket. However, a specially machined groove with an appropriate compression stop in 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.



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.



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.

913 & 913M Country of Origin Identifier				
В	Brazil			
С	China			
	India			
U	U.S.A.			

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.



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.



METALBEST GASKET



STYLE 905

Corrugated metal gaskets with Flexible Graphite 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.

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.



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	
Verdicarb (Mica Grat	ohite) Pink	

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.



It has a square cross section with bevelled corners

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.



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 Expansions 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.

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