

Low-Emission (LE) Product Guide



Sealing for a Safer and Greener Tomorrow

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The best packing for fugitive emission control in manual and automatic valves

STYLE 2236

Valve Stem Packing, Flexible Graphite, Inconel®

APPLICATION / BENEFITS: **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.

Highly Suitable for services with

Fugitive Emissions

Exceeds TA-Luft requirement

Best Packing for fugitive emission control in valves



KEY FEATURES

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

SERVICE LIMITS

Products		2236
Temperature °F (°C)	Minimum	-400°F (-240°C)
	Maximum	850°F (455°C)
	Steam	1200°F (650°C)
Pressure PSI (bar)	Valves	6500°F (450°C)
pH		0-14

Standard Package

Size	mm	3.2	4.8	6.4	7.9	9.5	11.1	12.7	14.3	15.9	19.1	22.2	25.4
	inch	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
Package**		1Kg (2.2lb)				2Kg (4.4lb)				5Kg (11lb)			

** Subject to change depending on tolerance expected +/-10%.

— Low Emission Technology —

API 622 Maximum 22 ppmv in 1,500 cycles and with an average of 2 ppm

STYLE 2848

Fully Traceable Valve Stem Packing, Flexible Graphite, ePTFE

APPLICATION/BENEFITS: **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



An excellent control valve packing with less than 2 PPM of leakage

Featuring

Teadit TAGS™

Each yarn is embedded with Teadit® Tags, creating a uniquely identifiable fingerprint.

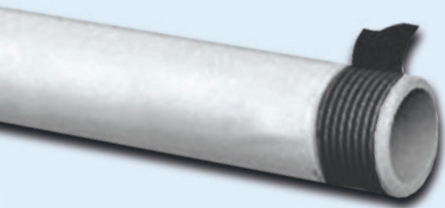


ECOTAPE-LE

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.

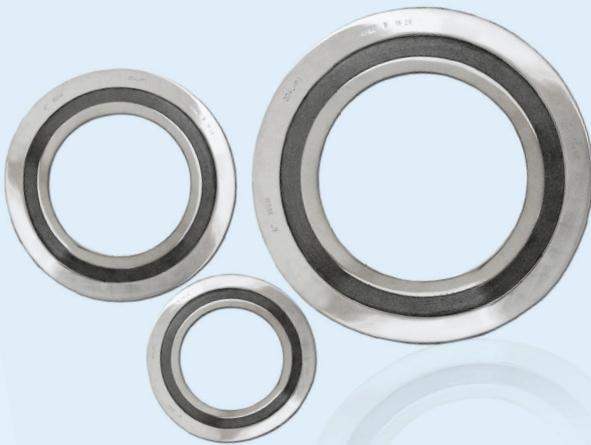
Our unique manufacturing process provides the final product a high degree of integrity proven to supply the best sealing solution for thread seal tape.



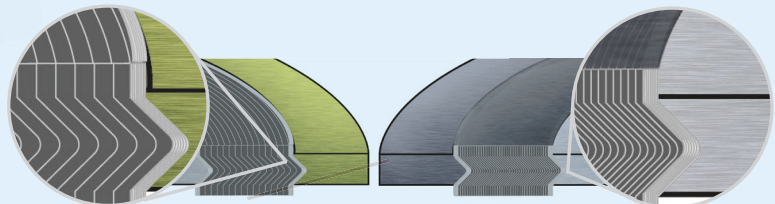
SERVICE LIMITS		SUPPLY	
Temperature Limits		Spool Width	
Maximum	535 F (280°C)	width	5/8 in(15.8mm)
pH	0-14	length	82 ft (25m)

STYLE 913M

Low Emission Spiral Wound



The **Style 913M** 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 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 a truly low seating stress design!



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

- **Reliability - High Pressures**
- **Sealability - Very Low Emission**

* Material and Dimension per ASME B 16.20.

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

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