



Category: THERMOFLON

Group: 100% Expanded PTFE Gasketing Sheets

Model: Style 1100

THERMOFLON JOINT SEALANT is a new marshmallow like product made of 100% PTFE, which is developed by using a highly specific treatment on the PTFE Fluorocarbon material.

Its high tensile strength and flexible, tough properties allows no drawbacks found commonly in the traditional gasketing materials.

Economically forms and firmed easily under extreme severe corrosive conditions with superior chemical and heat resistance.



THERMOFLON FEATURES:

Saves Time

- easy to install
- easy removal
- no scraping
- fills flange irregularities
- high compressibility
- light flange bolting

Long services

- 100% virgin IRTFE
- resists cold flow
- no creeping
- no retorquing
- non-aging
- non-contamination



THERMOFLON FEATURES:

Cost Savings

- no wastage
- low downtime
- no cutting of gasket rings
- minimum inventory
- long lasting
- unlimited self life
- soft and pliable

Specifications

- pressure to 3000psi
- temp: -200°C to +280°C
- chemically inert
- pH: 0 to 14



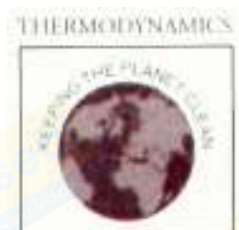
Installations

Above picture shows ends slicing and over - lapping patterns used on all types of installations



Applications

- Flanges
- Fume ducts
- Concrete lids
- Glass Joints
- Heat Exchangers
- Vessel tanks
- Steam vessels
- Manhole covers
- Handhole covers
- Ceramic Joints
- Hydraulic system
- Pneumatic system
- Water systems
- Fan housing





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STANDARD PACKS

Width		Thickness	Spool Length	Recommended Nominal Flange Size
Metric	English	Metric	Metric	Metric
3mm	1/8"	1.5mm	30M	50mm
5mm	3/16"	2.0mm	20M	200mm
7mm	1/4"	2.5mm	15M	600mm
10mm	3/8"	3.0mm	8M	1500mm
12mm		4.0mm	5M	
14mm	1/2"	5.0mm	5M	
17mm	5/8"	6.0mm	5M	
20mm	3/4"	7.0mm	5M	From
22mm		5.0mm	5M	1500mm
25mm		5.0mm	5M	
28mm		5.0mm	5M	
40mm		5.0mm	5M	

Other sizes are available on request
Round type cross section without adhesive from 1mm to 17mm
are available on request



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THERMOFLON Expanded PTFE Gasketing sheets Style 1103 makes the difference. Its highly fibrillated structure contains millions of fibrils that give unique characteristics to all gasketing products made from Expanded PTFE. On compression, the fibrils lock together, forming a solid homogeneous mass that is impervious to gases and liquids. Thermoflon Expanded PTFE is flexible and stable under high temperatures, and maintains its high tensile strength. It is incredibly resistant to creep, providing an extremely tight seal for controlling fugitive emissions. No other form of PTFE is made this way or exhibits these characteristics.

It meets FDA requirements, corrosion free and unlimited storage period.



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Easy to cut and install
Seals even the roughest flange
Require less stress to seal on rough
Flange surfaces
Ultimate Asbestos replacement
Resist creep and cold flow
100% Pure Expanded PTFE
Last indefinitely and wide sealing applications
Resists all common chemicals
Non-contaminating and non-toxic
Meets FDA requirements (FDA 21 CFR1 77.1550)

APPLICATIONS

Can be used in virtually any types of sealing applications throughout
Various industries:

- Chemical manufacturing
- Pharmaceutical plants
- Steel manufacturing
- Food and beverage processing
- Power generation
- Food equipment manufacturing
- Petrochemical production
- Distilling
- Pulp and paper processing
- Marine



Strain Comparison of PTFE Gasketing Material

Test Condition : Gasket load 3,600 psi for 24 hours at 500°F (260°C)



1. BEFORE TESTING - Original sample: I.D=50mm, O.D=86mm, t=1.5mm (1/16")
2. AFTER TESTING - TEFLON expanded P.T.F.E. sheet
3. AFTER TESTING - Mechanical grade P.T.F.E. sheet
4. AFTER TESTING - Filled P.T.F.E. sheet



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**Excellent sealability
and Flexibility**



**Highly compressible
Require low
compressive load
to seal**

(Scanning electron micrograph at 1,000 magnification)

TYPICAL PROPERTIES

Testing based on 1.0mm sheet thickness

Recovery	% (ASTM F-36)	17
Sealability	ml/hr (ASTM F-37-B)	
60 psig/4 bar	Nitrogen Gas	0.16
10psig/0.7 bar	Liquid	0.004
Compressibility	% (ASTM F-36)	66
Creep Relaxation	% (ASTM F-38)	
22 hrs @	23 °C	19
22 hrs @	100 °C	33
Service Temperature	°C	232 to +315
Service Pressure	psi	3000
P xT factor		1,800,000
pH range		0-14



AVAILABLE SHEET SIZES

Thickness	0.8mm	to	6.0mm
Sheet Sizes	1500mm	x	1500mm
	1800mm	x	1800mm
	2000mm	x	2000mm



Thermodynamics

' TAKING SEALING TECHNOLOGY BEYOND TOMORROW'



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Group: 100% Expanded PTFE Seal

Model: Style 1105

STYLE 1105 VALVE STEM PACKING (ROUND LOCKCORD)

THIS MULTI-PURPOSE, SELF FORMING VALVE PACKING IS MADE OF 100% PURE TFE FLUOROCARBON. IN ITS UNSINTERED FORM, LOCKCORD HAS A HIGH DEGREE OF PLIABILITY ENABLING IT TO CONFORM TO VALVE STUFFING BOX FLAWS AND IRREGULARITIES, PROVIDING AN ENDLESS MOLDED PACKING SET.

SUPERIOR BENEFITS

LOW COEFFICIENT OF FRICTION
NO VALVE DRAG
TEMPERATURE FROM -450°F TO $+600^{\circ}\text{F}$
MOLDS EASILY
MINIMUM INVENTORY

CHEMICALLY INERT
LONG LIFE SERVICE
NOW-CONTAMINATING
EASY INSTALLATION
SELF-LUBRICATING



ORDERING INFORMATION:

LOCKCORD COMES IN FOUR POPULAR SIZES:

3/32" x 50' (= 2.5mm X 15.0M)
5/32" x 25' (= 4.0mm X 7.5M)

7/32" X 15' (= 5.5mm X 4.5M)
9/32" X 9' (= 7.0mm X 2.8M)

OTHER SIZES ARE AVAILABLE ON REQUEST





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Model: Style 1108

STYLE 1108 GOLDEN END TAPES

A QUICK, CONVENIENT THREAD SEALANT MADE OF 100% TFE FLUOROCARBON. CHEMICALLY INERT, NON-HARDENING, NON-CONTAMINATING PERMANENT SEAL ABLE TO WITHSTAND TEMPERATURE FROM -450°F TO + 600°F. INSTALLATION REQUIRES CLEAN THREADS, FREE FROM OIL AND GRIME. WRAP THREADS AT LEAST 1/8" BACK FROM END. OVERLAP ONE HALF A TURN, PULLING TAPE INTO THREADS. BREAK TAPE AND ASSEMBLE FITTING.

SPECIFICATION : 0.004" (0.1mm) THICKNESS
12.7mm WIDTH X 10m LENGTH



Category: THERMOFLON

Group: 100% Virgin Expanded PTFE Gasketing Tapes

Model: Style 1109

THERMOFLON Expanded PTFE Gasketing Tapes is designed for narrow sealing surfaces requiring a strip or full-face gasket. Available in both Adhesive backing and Non-Adhesive.



- Produced from 100% Pure Expanded PTFE
- Easy to cut and install
- Seals even the roughest flange
- Require less stress to seal on rough flange surfaces
- Ultimate Asbestos replacement
- Resist creep and cold flow
- Last indefinitely and wide sealing applications
- Resists all common chemicals
- Non-contaminating and non-toxic
- Meets FDA requirements (FDA 21 CFR177.1550)



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Installation Procedure

Select a tape width which is approximately 2/3 the width of the sealing surface.
Remove dirt, particles, scale and flow materials from the surface.
Lubricate the bolts and the underside of the nuts.
Remove release paper from the adhesive.
Apply Tape to the sealing surface in any configuration, pressing lightly to stick.
Overlapping the ends of the Tape by about 1/2" at a bolt hole.
Tighten the bolts following the standard torquing sequences.

APPLICATIONS

Piping of wide aperture instrument, flange gasket, manhole packing, P.T.F.E. wrapped gasket, gasket for tankcover, widely in fields of industrial sealing material for steel works, heavy chemical industry, paper manufacturing, medicine, foods pharmacy, chemical fiber, ships and chemical instrument concerned with petroleum.

STANDARD PACKS

Thickness divide in 4 sizes:

English	10 Mil	20 Mil	40 Mil	65 Mil
Metric	0.25mm	0.5mm	1.0mm	1.65mm

Width divide in 5 sizes:

English	1"	2"	3"	4"	6"
Metric	25mm	50mm	75mm	100mm	150mm

Length is available from 15 feet (=4.5M) to 50 feet (=15.2M)

Other sizes are on request only.

