



**PERFORMANCE
SEALING
SOLUTIONS**

Safety Information for TFCO Inc. PTFE Products

Applicability: This safety information applies to the following TFCO Inc. PTFE products:

Expanded PTFE Joint Sealant
Expanded PTFE Sheet
Expanded PTFE Gasket Tape

PTFE Thread Sealant Tape (all grades)
PTFE Valve Stem Packing
Custom Products made of 100% PTFE

Requirement for Hazard Communication:

OSHA Regulation 29 CFR 1910.1200 requires that hazards associated with particular chemicals be communicated for safety purposes. Hazards are communicated by way of a Safety Data Sheet (SDS) and labeling of product packaging.

Why is a Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS) not required for the particular TFCO, Inc products listed?

OSHA differentiates between a chemical and an article. An article is defined as follows:

Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees. 29 CFR 1910.1200(c)

All of the products listed above meet the requirements of an article when used within the operating limits established by TFCO, Inc. As a result, they are considered non-hazardous under normal conditions of use and do not require a MSDS or SDS. See OSHA 29 CFR 1910.1200(b)(6)(v).

Are there any risks associated with PTFE products when used outside of the recommended limits?

Yes. If heated above 600°F (315°C), these products may cause decomposition byproducts such as hydrogen fluoride, carbonyl fluoride and perfluoroolefins. Particulate matter evolved from overheating may cause polymer fume fever, a “flu-like” illness. This can result when continuous service temperatures exceed 600°F, when burning, grinding or melting the product, or if the products are involved in a fire.

Therefore,

- Do not heat above 600°F (315°C)
- Do not grind, cut, burn or melt the products without effective ventilation and/or personal protective equipment
- In case of a fire, wear self-contained breathing apparatus, full protective equipment, and neoprene gloves when handling refuse from a fire involving PTFE.

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Technical Data Sheet – GT Expanded PTFE Gasket Tape

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Description

GT Gasket Tape is a high performance gasket material made of 100% expanded PTFE. It is a form-in-place gasket that conforms to almost any sealing surface. It is capable of withstanding a wide range of pressure, temperature and chemical environments. This product utilizes a double-coated tissue Pressure-Sensitive Adhesive to aid in installation.

Technical Data for PTFE Substrate

GT Tape is manufactured from pure PTFE (Polytetrafluoroethylene) resin. Excluding the Pressure-Sensitive Adhesive, this product contains no other ingredients, fillers or additives.

General Specifications

Pressure Range	Full Vacuum to 3,000 psi
Temperature Range	-450°F to 525°F continuous to 600°F intermittent
Maximum P x T (psi x deg F)	350,000
pH Range	0-14 (resistant to all common chemicals, except molten alkali metals and elemental fluorine)
FDA	Compliant with FDA 21 CFR 177.1550 (PTFE resin) and 21 CFR 175.105 (adhesive) for contact with food
Stability	No Age Deterioration Unlimited Shelf Life



Technical Data Sheet - Expanded PTFE Gasket Tape

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Technical Data for Pressure Sensitive Adhesive and Release Liner

Our Pressure Sensitive Adhesive is a double coated reinforced tissue tape that is coated on both sides with a high tack dead load synthetic-based adhesive system.

Specifications

Backing Tissue (in.)	0.001" thick
Adhesive	Synthetic copolymer, permanent type
Release Liner	45 lb., 3 mil polypropylene, silicone-coated
Thickness, Release Liner (in.)	0.003
Thickness, Tape (in.)	0.0055
Adhesion (ozs per inch of width)	120
Holding Power (min.)	5,000+
Tack (in.)	1
Tensile Strength (lb./sq-in)	5
Elongation (%)	4
Application Temperature (F)	60-120
Temperature Range (F)	0-120
Lift Edge	No
FDA	Pressure Sensitive Adhesive complies with the Federal Food, Drug and Cosmetics Act, Title 21, Subpart B, Paragraph 175.105 which covers the use of pressure sensitive adhesive tapes for food.