

## A RESILIENT CORRUGATED INSERT THAT PROVIDES LOCALIZED HIGH SEALING STRESS AREAS

*INERTEX® Inermet Gaskets* are designed with a stainless steel, corrugated insert between the 1/16" thick ePTFE facings. The corrugations work in tandem with the facings to leverage the bolt loading to higher levels of sealing stress at the peak of each corrugation. These features make the *INERTEX® Inermet Gasket* a good choice for those especially challenging sealing conditions such as high temperature or cyclic service. Additionally, the corrugations store the energy of compression and add a component of resiliency to the design.

*INERTEX® Inermet Gaskets* not only require less bolt load than spiral wound or comparable semi-metallic gaskets, the soft facings are forgiving of those less than ideal sealing services so often encountered in industrial applications.

*INERTEX® Inermet Gaskets* can be made in any size or shape, including oval, rectangular, and different rib configurations. Oversize gaskets can be fabricated by the Inertech skive overlap technique to join segments of ePTFE facings. The metallic insert is available in a range of materials that include stainless steel, titanium, and hastelloy. Typical services include tube and shell heat exchangers, steam and condensate lines, boiler hand-holes, manways, pressure vessel body flanges, and either oblong or rectangular flanges.

### **Inertech's Technical Support**

Inertech's technical team includes a professional engineer with nearly 40 years of hands on experience in trouble shooting a wide range of sealing challenges that include pressure vessels, piping, rotating equipment, fans, blowers, etc. Inertech's sealing solutions are based on the most current sealing technology that deploys Pressure Vessel Research Council (PVRC) gasket constants validated by third-party testing. Our sealing solutions are customized to seal your particular design needs.

### **INERTEX® EXPANDED ePTFE**

#### **TEMPERATURE RANGE:**

-450° F (-268° C) to  
+600° F (315° C)

#### **PRESSURE RANGE:**

Full Vacuum to 3000 psi  
(20.7 MPa/ 207 Bar)

#### **CHEMICAL COMPATIBILITY:**

100% Expanded virgin PTFE

pH Range: 0 to 14

Chemically inert except for  
elemental fluorine and molten  
alkali metals

#### **OXYGEN INDEX:**

94.5%

#### **LOW CREEP AND COLD FLOW**

#### **NON-TOXIC, SILICONE-FREE**

#### **NON-CONTAMINATING**

#### **NON-PARTICULATING**

#### **NON-AGING IN SERVICE**

## You can Depend on These High Performance Features

- Wide pressure and temperature range
- Unsurpassed chemical compatibility
- Excellent creep and cold flow resistance
- Will not harden or deteriorate with age
- Low coefficient of friction allows easy removal
- Easily conforms to damaged or pitted flanges
- Low compressive load to seal
- Multiple sealing peaks create higher gasket stress
- Resilient insert for cycling and vibration applications
- Can be made in almost any size or configuration
- Professional engineering support

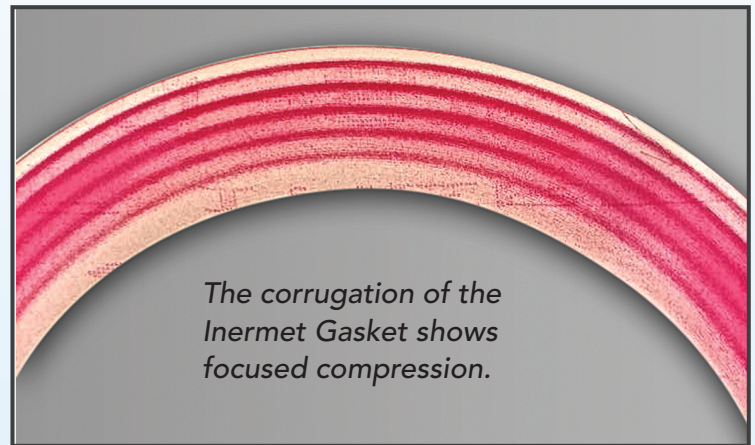
## Size Availability

INERTEX® Inermet Ring Gaskets are available from inventory in ½" through 24" in both ANSI 150# and 300# flange sizes.

## Industries Served

- |               |                              |                     |                        |
|---------------|------------------------------|---------------------|------------------------|
| • Aerospace   | • Pharmaceutical and Medical | • Electronics       | • Wastewater Treatment |
| • Oil and Gas | • Chemical Processing        | • Pulp and Paper    | • Marine               |
| • Automotive  | • Power Generation           | • Food and Beverage | • Semiconductor        |

## Stress Imprint of Inermet Gasket on Pressure Sensitive Film



*The corrugation of the Inermet Gasket shows focused compression.*

## Custom Fabrication

INERTEX® Inermet Gaskets can be fabricated into nearly any style and shape of gasket including oval manways, ribbed heat exchangers, strips, plates, or others as required. Size is no limitation!

## Inertex Family of Engineered Sealing Solutions

The Inertex family of gasketing and sealing products are the new standard for allowing end-users to achieve their Low-Emission and Leak-Tight goals!

- |                      |                                       |
|----------------------|---------------------------------------|
| • UHF Joint Sealant  | • SQ-S Isotropic Gasket Sheets        |
| • UHF Gasket Tape    | • Isotropic Gasket Tape               |
| • EZ Seal Gaskets    | • Low Torque Gaskets                  |
| • Valve Stem Packing | • Inermet Gaskets (with Metal Insert) |



**inertech, Inc.** SOLUTIONS ENGINEERED IN ePTFE

CALL: 800.463.7839      EMAIL: [info@inertech.com](mailto:info@inertech.com)  
 FAX: 888.463.7839      VISIT: [www.inertech.com](http://www.inertech.com)

DISTRIBUTED BY:

