



REDUCED AREA GASKETS DESIGNED FOR LOW TORQUE APPLICATIONS

Successfully achieve your plant's Low-Emissions goals with **INERTEX[®] Reduced Area Gasket Design**. Our Reduced Area Gasket Designs are manufactured from 100% expanded virgin PTFE in our AS9100D & ISO 9001:2015 certified plant under our US Patent 6,682,081.

INERTEX[®] Reduced Area Gasket Designs include **OPRA** (One Piece Reduced Area), **LTC** (Low Torque Composite), **LTC-NR** (Low Torque Composite Non-Rotational), and **OPRA/LTC HYBRID**. Inertech provides the only 100% pure PTFE gaskets designed for FRP and plastic flanges. The much reduced torque values for this gasket design can be instrumental in improving plant UPTIME by preventing over-torque damage to FRP flanges.

In addition, **INERTEX[®] Reduced Area Gasket Designs** allow sealing solutions for flat face flanges where full face gaskets are normally used, but cannot achieve an adequate seal. The gasket material located inboard of the bolt circle provides the sealing, while the material outboard of the bolt circle resists flange rotation that results from low-strength or thin flanges. Because of this, for a given value of bolt load, the reduced area results in a significant increase in gasket stress over a full face gasket.

INERTEX[®] Reduced Area Gasket Designs, combined with Inertech's **ENGINEERED, LEAK-TIGHT GASKETING SOLUTIONS**, allow users to solve leakage problems on FRP, plastic, and related low torque applications. When provided with specific application conditions, Inertech's engineering staff will craft a custom sealing solution to ensure leak-tightness within the range of permissible bolt loads for your fragile flanges. Inertech will provide an analysis of your sealing challenge, a recommended **INERTEX[®] Reduced Area Gasket Design** custom fabricated to your available safe torque, and thorough installation procedures to ensure sealing success.

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

FDA COMPLIANT:

Meets FDA 21 CFR177.1550

LOW CREEP AND COLD FLOW

NON-TOXIC, SILICONE-FREE

NON-CONTAMINATING

NON-PARTICULATING

NON-AGING IN SERVICE

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.

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
- Advanced engineering designs that seal when others fail
- Professional engineering support

Size Availability

INERTEX® Reduced Area Gaskets are available from inventory for ASME Class 150 flat faced flanges in sizes ½" to 24". Additional sizes and configurations are available upon request.

Custom Fabrication

INERTEX® Reduced Area 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!

Industries Served

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



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

inertech, Inc. SOLUTIONS ENGINEERED IN ePTFE

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