

Custom PTFE Sealing Solutions



TEXOLON® PTFE Encapsulated Gaskets

Technetics PTFE & Polymer Solutions is a recognized leader in the development, production and delivery of TEXOLON® solid PTFE gaskets and seals. Our gaskets are used in a variety of sealing applications, including use with misaligned, damaged, or rough sealing surfaces. With production capabilities including resin compound blending, compression molding, and skiving, we are able to precisely control all aspects of your PTFE gasket from start to finish. Our in house laboratory and quality control ensure that you receive the quality product you expect.

KEY FEATURES

- Wide range of temperature capabilities (-400°F to 500°F)
- Excellent purity
- Low stress
- Chemical compatibility
- Reduced creep and cold flow characteristics.

SIZES

- Produced in all of the standard ANSI flange sizes
- Special sizes and thickness available upon request

CUSTOM SOLUTIONS

We have the ability to customize or enhance any of our standard PTFE gaskets with fillers or reinforcements to meet your unique applications.



TEXOLON® PTFE Flange Gaskets

Our steel reinforced pipe flange gaskets are a proprietary molded PTFE gasket featuring stainless steel grade 304 perforated reinforcement core. The added strength of the stainless steel core provides blow-out prevention and superior resistance to spreading or cold flowing from heat/pressure cycles. The combination of the corrosion resistant void-free virgin PTFE resins with the structural strength of 304 perforated stainless steel provide improved operational safety for personnel, property and the environment.

Testing has confirmed that the TEXOLON® gasket experiences over one-third less stud load loss than virgin and glass filled PTFE gasket materials. The excellent creep and cold flow resistance allows higher temperature and pressure limits.

FOR USE IN APPLICATIONS WHERE:

- Liquids or gases are corrosive
- Higher pressures are encountered
- Contamination must be avoided
- Sudden failure in a system would be hazardous
- Long service life is mandatory
- A tight seal is needed to control emissions
- Pressure variations are present

SIZES

- Made to a standard of 3/32" thick
- Can be manufactured to a wide choice of standard dimensions ranging from 1/2" up to 48"
- Other thicknesses are available upon request and full-face configurations are also available
- Offer blind, fluid blocking configurations with a handle for ease of installation

PTFE Envelope Gaskets

PTFE jacketed gaskets provide positive, trouble free sealing for applications ranging from mild to severely corrosive. Our PTFE envelopes are available in a variety of styles and sizes including standard ring and full face. Envelopes can be manufactured slit, milled, bull nose, or c-shaped.

Style 6300 - 1/16" or 1/8" thick filler for maximum softness, formability and low w compressive bolt loading.

Style 6302 - Corrosion resistant, corrugated stainless steel between two layers of conformable, soft filler for pressures up to 300 psi.

Style 6303 - Adapter steel core with 1/8" thick conformable, soft filler on each side.

Style 6305 - Same configuration as Style 6300, using 1/16" or 1/8" Garlock BLUEGUARD® 3000 filler.

Style 6326 - 3/16" or 5/16" total thick Garlock BLUEGUARD® 3000 filler between two layers of material.

CHEMISEAL® GZ - Designed for severe service conditions. CHEMISEAL® GZ envelope gaskets are soft, easily compressible, chemically inert PTFE. The combination of chemical resistance and very low permeability make the CHEMISEAL® GZ envelope gasket a superior gasket for severe corrosive service in glass lined equipment where conventional envelope gaskets will not meet the requirements.

CHEMISEAL® GZ envelope gaskets are 100% PTFE and are FDA compliant.

*Standard Dimensions = ASA Dimensions
Also available in ANSI Dimensions*

Custom Seal Ring Solutions

Technetics PTFE & Polymer Solutions PTFE seal rings are made from either our own compression molded virgin PTFE or filled PTFE materials to the user's exact specifications up to 52" in diameter. Typically used for critical applications, TEXOLON® PTFE seals are ideal for use when corrosive liquids, high pressures or distinct pressure variations are present. Custom large and small diameter seals will ensure minimal maintenance downtime and repair.

OFFERINGS

- Backup Rings
- Seal Rings
- Valve Seats
- Wiper Rings
- Chevron Packing
- Piston Rings
- Ball Valve Seals
- Spacers
- Custom O-Rings

CRITICAL INDUSTRIES SERVED

- Aerospace
- Semiconductor
- Automotive
- Chemical
- Offshore

