TUF-FLEX®

The Ultimate in Gasket Performance

Will Not Impart Taste or Odor! No Cross Flavor Contamination.





Rubber Fab

Animal Derived Ingredient Free

3A Certified

a Garlock Hygienic Technologies company

TUF-FLEX®

Introducing a Technologically Advanced Sanitary Gasket

Tuf-Flex, the revolutionary sanitary gasket from Rubber Fab, is the world's only unitized seal setting new standards for purity, performance and flexibility. Designed to meet critical requirements in pharmaceutical, biotechnology, ultra-pure water, WFI (water-for-injection) and difficult food and beverage processing, Tuf-Flex outperforms other sanitary hygienic seals and increases uptime by helping eliminate costly process interruptions.

Performance Based on a Revolutionary Composition

A Tuf-Flex sanitary gasket's contact surface is a layer of PTFE grafted to an EPDM rubber inner core. This totally bonded construction provides an exceptionally pure and incredibly flexible seal.

By grafting the elastomer with a layer of PTFE, Tuf-Flex will behave like an elastomer but will prevent product contamination, service interruptions and clean-up costs associated with traditional elastomer seals.

Product Purity Without Changeout

With standard CIP cleaning, Tuf-Flex sanitary gaskets will NOT impart taste or odor. Because there's no cross flavor contamination. Tuf-Flex increases processing uptime by minimizing need for changeout.



High Performance With Exceptional Purity

Because its elastomer core is protected by a unitized layer of PTFE, a Tuf-Flex sanitary gasket will not release elastomer extractables or particulates totally eliminating spalling. The result is an **exceptionally** maintained sanitary tubing I.D. with no I.D. invasiveness or system contamination.

Achieve Higher Results Under SIP/CIP Conditions

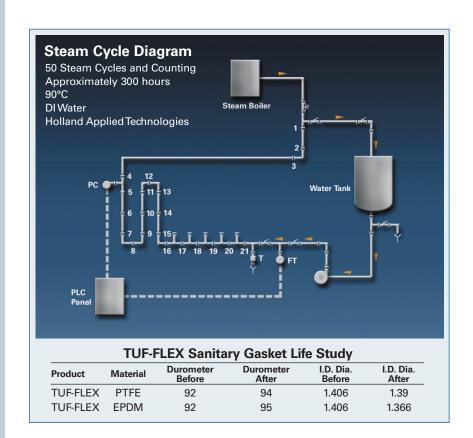
- Uniting the **flexibility** of an elastomer with the chemical resistance of PTFE
- Superior resistance to cold flow and creep
- Excellent chemical resistance
- Minimal thermal expansion
- Exceptional flexibility

Tuf-Flex Is Ultra-Pure

- Will not impart taste or odor - no cross flavor contamination
- No extractables, TOCs or particulates to contaminate product stream
- No-pigment
- No gasket I.D. invasion
- Exceptional cleanability response
- Non-stick surfaces

Tuf-Flex Prevents Process Interruptions

- Perfect cleanability
- No re-torquing
- Up to 500 SIP cycles guaranteed
- Outstanding service life
- Reusable
- Extended uptime
- Maintains seal @ 30 in./lbs. and 50 in./lbs.
- Temperature Range: -20°F to 300°F



Type I and Type III Envelope Gaskets vs TUF-FLEX

A Solid PTFEType I gasket is guaranteed to fail in SIP conditions. They will creep, cold flow and leak at ΔT .



The Envelope gasket construction provides inconsistent results between the two materials. It will also creep, cold flow and leak over time.



The PTFE grafted elastomer in a Tuf-Flex gasket will maintain I.D. without re-torquing or leaking.

TUF-FLEX Sanitary Gasket				
Item	Unit	Spec.	"A" Type	"B" Type
Normal Condition Test				
Hardness	HS (JIS A)	80±5	82	77
Tensile Strength	M Fa	9.8 Min.	18.5	16.7
Elongation	%	150 Min.	160	310
Aging Test	POINTS	+5 Max.	+1	+2
Hardness Change Tensile Strength Change	PUINTS %	+5 Max.	-3.2	+2 -7.2
Elongation Change	% %	-15 Max.	-11.6	-19.4
Compression Set Test				
Compression Set	%	+25 Max.	+7	+13

TUF-FLEX... The World's Only **Unitized Sanitary Gasket**



1/2" A42MPGR-TF-050-E 3/4" A42MPGR-TF-075-E 1" A40MPGR-TF-100-E 1-1/2" A40MPGR-TF-150-E 2" A40MPGR-TF-200-E 2-1/2" A40MPGR-TF-250-E 3" A40MPGR-TF-300-E 4" A40MPGR-TF-400-E 6" A40MPGR-TF-600-E





Specify Tuf-Flex; the World's Finest Sanitary Gasket

- Unites the **flexibility** of an elastomer with the **chemical resistance** of PTFE
- Up to 500 steam cycles guaranteed
- Totally unitized, perfectly sealed
- Leak-proof performance
- Superior creep resistance
- Excellent chemical resistance
- Increases uptime
- Minimal thermal expansion
- No re-torquing necessary
- Outstanding service life
- Outstanding purity no extractables, TOCs or particulates
- No gasket extrusion into the I.D.
- Non-stick surfaces
- No pigments
- Easy cleanability
- Also available in 150# Ansi-Flex and IDF-Flex

Tuf-Flex® Meets Stringent Standards

- U.S. Pharmacopeia Class VI Certification
- Cytotoxicity Criteria
- Title 21 CFR 177.2600 and 177.1550
- 3-A Certified
- USDA Sanitary Standards
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free
- ® Tuf-Flex and ADI Free are registered trademarks of Rubber Fab
- * Buna is not an ADI Free elastomer.

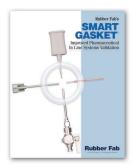




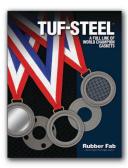
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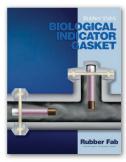
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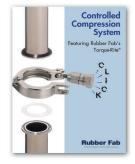
Also Available From Rubber Fab



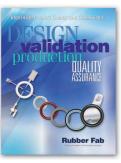






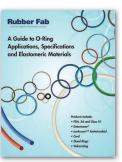


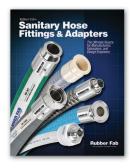














Rubber Fab is a leading innovator of high quality sanitary gaskets, hose assemblies, valve, pump and filler machine components in a wide range of high purity elastomer materials. For additional information, contact Rubber Fab at 973-579-2959 or visit us at www.rubberfab.com.

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