UF-FLEX® The Ultimate in Gasket Performance Will Not Impart Taste or Odor! No Cross Flavor Contamination.

Revolutionary Construction
Exceptional Purity
Will Not Impart Taste or Odor
Superior Performance
Extended Up-Time
3A Certified

Animal Derived Ingredient Free



Rubber Fab

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

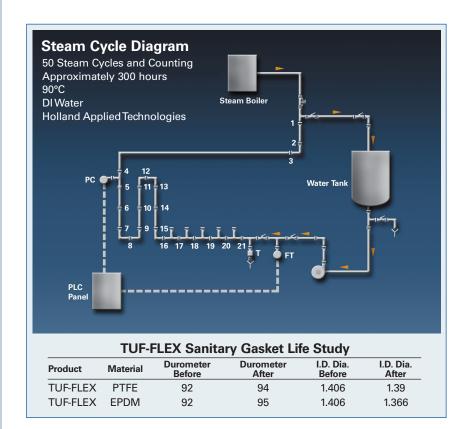
- Uniting the flexibility of an elastomer with the chemical resistance of PTFE
- Superior resistance to cold flow and creep
- Excellent **chemical resistance**
- Minimal thermal expansion
- Exceptional flexibility

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.
- Temperature Range: -20°F to 300°F



Type I and Type III Envelope Gaskets vs $\mathsf{TUF}\text{-}\mathsf{FLEX}$

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



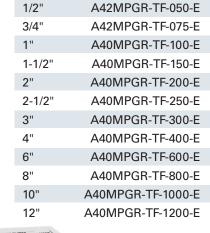
The Envelope gasket construction provides inconsistent results between the two materials. It will also creep, cold flow and leak over time.



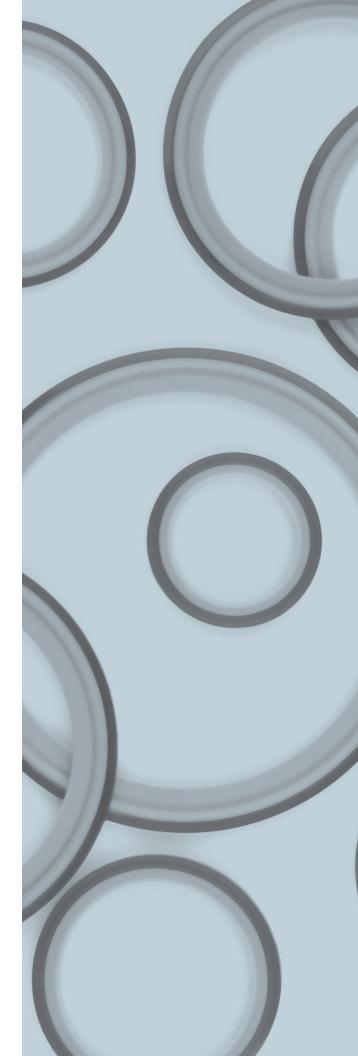
The PTFE grafted elastomer in a Tuf-Flex gasket will maintain I.D. without re-torquing or leaking.

TUF-FLEX Sanitary Gasket				
Item	Unit	Spec.	"А" Туре	"В" Туре
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 Hardness Change	POINTS	+5 Max.	+1	+2
Tensile Strength Change	%	-15 Max.	-3.2	-7.2
Elongation Change	%	-25 Max.	-11.6	-19.4
Compression Set Test Compression Set	%	+25 Max.	+7	+13

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







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
- st Buna is not an ADI Free elastomer.





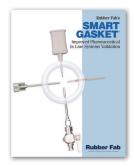
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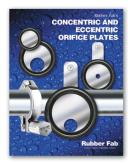
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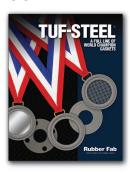
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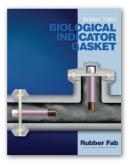
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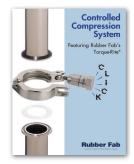
Also Available From Rubber Fab











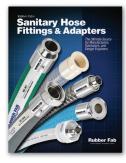














Rubber Fab is a leading innovator of high quality sanitary gaskets, hose assemblies, valve, pump and filler machine components in a wide range of high purity elastomer materials. For additional information, contact Rubber Fab at 973-579-2959 or visit us at www.rubberfab.com.

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