

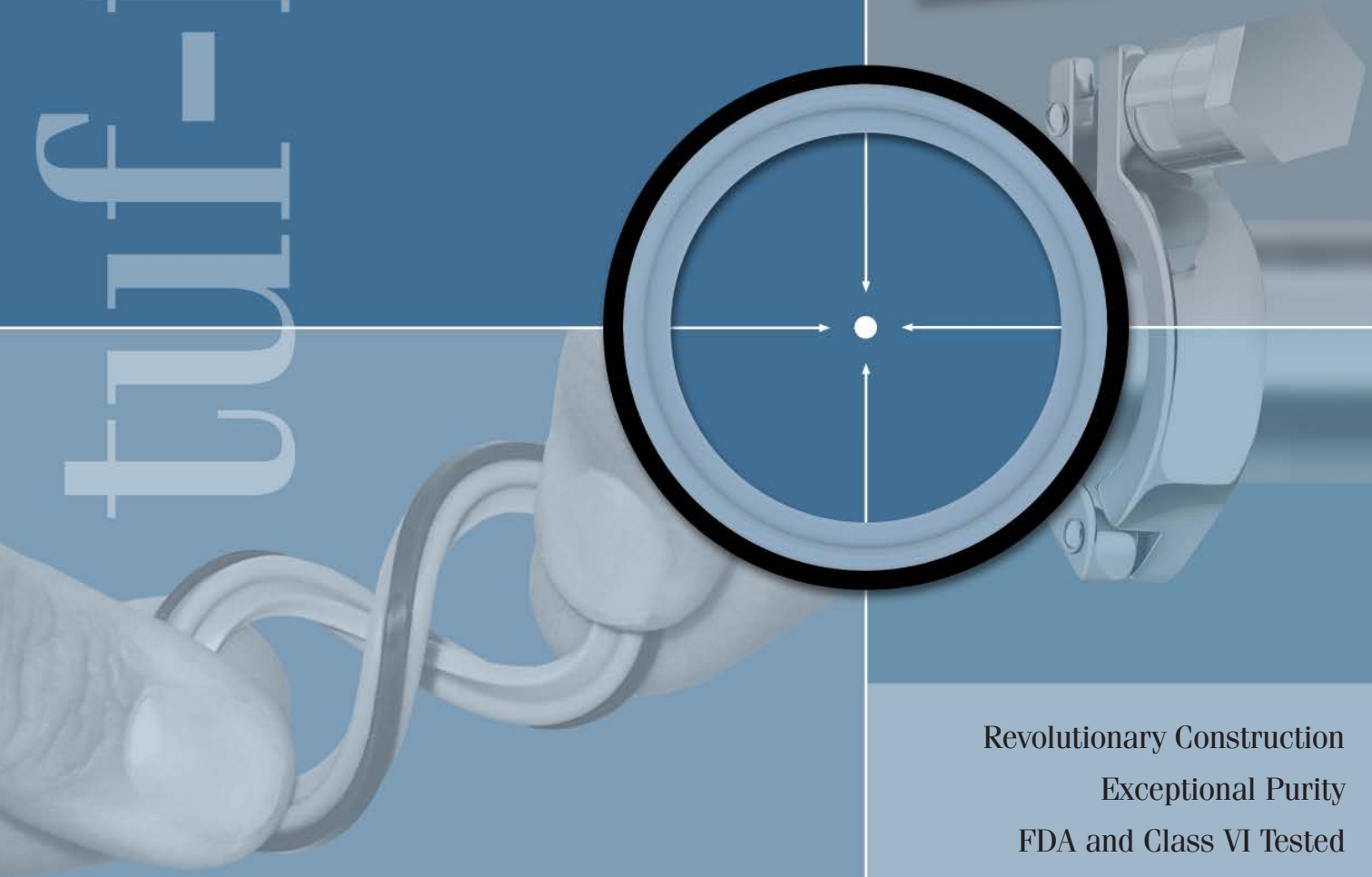
tuf-flex

Rubber Fab Technologies Group's

**TUF-FLEX**<sup>®</sup>

The Ultimate in  
Gasket Performance

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



Revolutionary Construction

Exceptional Purity

FDA and Class VI Tested

Superior Performance

Extended Up-Time

3A Certified

Animal Derived Ingredient Free



**RUBBER FAB**  
*technologies group*

# TUF-FLEX®

## Introducing a Technologically Advanced Sanitary Gasket

Tuf-Flex®, the **revolutionary sanitary gasket** from Rubber Fab Technologies Group, a **revolutionary unitized gasket** setting new standards for **purity, performance and flexibility**. Designed to meet critical requirements in pharmaceutical, biotechnology, ultra-pure water, and WFI (water-for-injection) applications. And because **Tuf-Flex® will not impart taste or odor with flavor change**, it provides the ultimate gasket performance for 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 unitized to an EPDM rubber inner core**. This **totally bonded construction** provides an **exceptionally pure and incredibly flexible seal**.

By unitizing the elastomer with a layer of PTFE, **Tuf-Flex® will perform like an elastomer with the chemically inert characteristics of a PTFE sanitary gasket**.

## 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 eliminating spalling**. The result is an **exceptionally maintained sanitary tubing I.D. with minimal I.D. invasiveness or system contamination**.

## Achieve Higher Results Under SIP/CIP Conditions

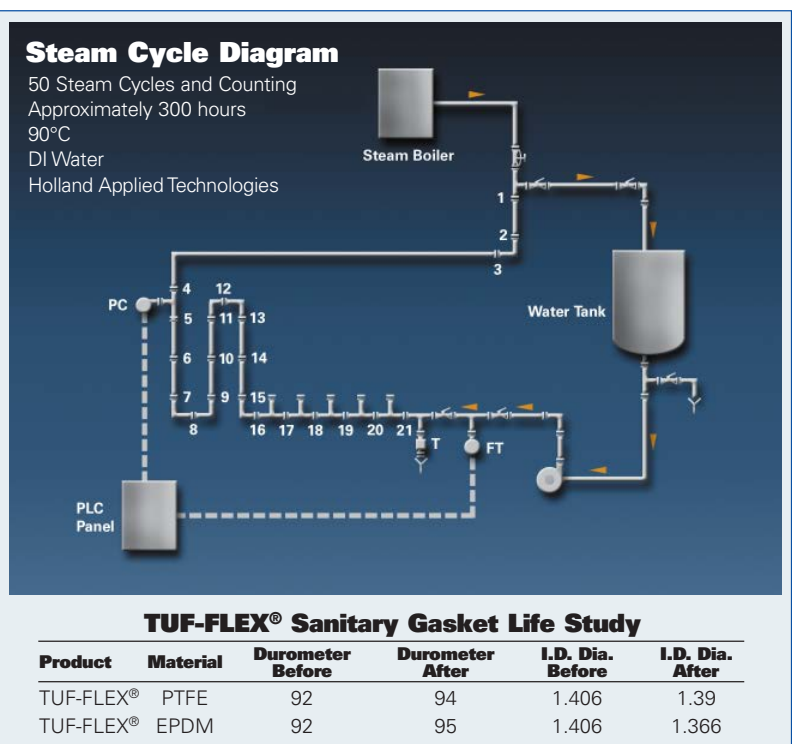
- Uniting the **flexibility** of an elastomer with the **inert chemical resistance** of PTFE
- **Seats perfectly**
- Excellent **chemical resistance**
- **Minimal thermal expansion**
- **Exceptional flexibility**

## 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**
- **Minimal gasket I.D. invasion**
- **Exceptional cleanability response**
- **Non-stick surfaces**

## Tuf-Flex® Prevents Process Interruptions

- **Perfect cleanability**
- **Outstanding service life**
- **Reusable**
- **Extended uptime**
- **Maintains seal @ 30 in./lbs.**
- **Temperature Range: -20°F to 400°F**



## Type I and Type III Envelope Gaskets vs TUF-FLEX®



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



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



The PTFE unitized elastomer in a Tuf-Flex® gasket will maintain I.D.

## Ansi-Flex 150# Ansi Flange Gasket

An Ansi-Flex 150# Ansi Flange Gasket's contact surface is **PTFE unitized to an EPDM rubber inner core**. This **totally bonded** construction provides a PTFE gasket with the mechanical characteristics, including memory, of an elastomer gasket with **exceptional steam resistance**. An Ansi-Flex 150# Ansi Flange Gasket is ideal for applications, such as **PVC piping and glass lining piping**, where low seating stress is required. The Ansi-Flex 150# Ansi Flange Gasket has **superior and extended service life** over standard flange gaskets. Achieve higher performance under SIP/CIP conditions.



### AVAILABLE SIZES:

1/2" – 12"

Consult factory for sizes over 12"

### ALSO AVAILABLE:

Ansi-Flange in 1/8" thick Tuf-Steel® material

PART NUMBER	PIPE SIZE	OD	ID	THK.	C	D	PCD	# HOLES	E
FF-AF-E-050-150#-.197	1/2"	3.386	0.708	0.197	1.181	-	2.362	(4) .630	1.654
FF-AF-E-075-150#-.197	3/4"	3.78	0.866	0.197	1.181	1.654	2.756	(4) .630	2.047
FF-AF-E-100-150#-.197	1"	4.134	1.142	0.197	1.456	1.968	3.11	(4) .630	2.362
FF-AF-E-125-150#-.197	1-1/4"	4.528	1.496	0.197	1.811	2.323	3.504	(4) .630	2.756
FF-AF-E-150-150#-.197	1-1/2"	4.921	1.693	0.197	2.087	2.677	3.858	(4) .630	3.11
FF-AF-E-200-150#-.197	2"	5.906	2.126	0.197	2.52	3.268	4.764	(4) .748	3.898
FF-AF-E-250-150#-.197	2-1/2"	6.89	2.716	0.197	3.189	3.976	5.512	(4) .748	4.646
FF-AF-E-300-150#-.197	3"	7.402	3.15	0.197	3.622	4.409	5.984	(4) .748	5.118
FF-AF-E-400-150#-.197	4"	8.898	4.055	0.197	4.882	5.827	7.48	(8) .748	6.614
FF-AF-E-500-150#-.197	5"	9.921	5.079	0.197	5.906	6.85	8.504	(8) .866	7.48
FF-AF-E-600-150#-.197	6"	10.906	6.024	0.197	6.772	7.717	9.488	(8) .866	8.346
FF-AF-E-800-150#-.197	8"	13.386	7.874	0.197	8.74	9.685	11.732	(8) .866	10.68
FF-AF-E-1000-150#-.197	10"	15.906	10	0.236	10.866	11.811	14.252	(12) .984	12.992
FF-AF-E-1200-150#-.197	12"	18.898	12.007	0.236	13.189	14.37	17.007	(12) .984	15.748

## TUF-FLEX®... The Ultimate in Gasket Performance

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

## IDF: (International Dairy Fitting)

1"	IDF-TF-E-100
1-1/2"	IDF-TF-E-150
2"	IDF-TF-E-200
2-1/2"	IDF-TF-E-250
3"	IDF-TF-E-300
4"	IDF-TF-E-400



## Specify Tuf-Flex®, the Ultimate in Sanitary Gasket Performance

- Combines the **flexibility** of an elastomer with the **inert chemical resistance** of PTFE
- **Totally unitized**, perfectly sealed
- Excellent **chemical resistance**
- **Increases uptime**
- Minimal thermal expansion
- Outstanding service life
- **Outstanding purity** – no extractables, TOCs or particulates
- Minimal gasket intrusion 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

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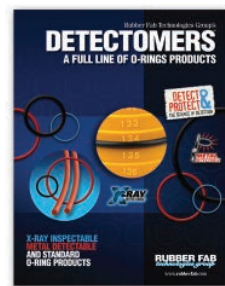
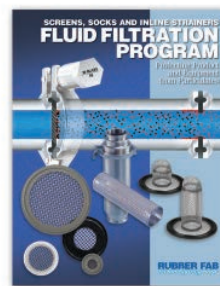
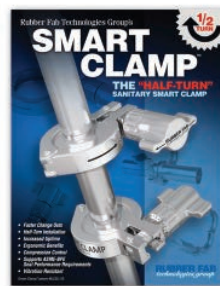
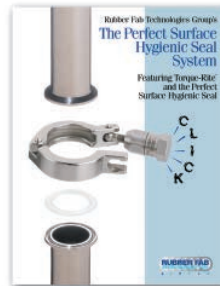
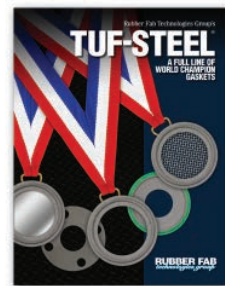
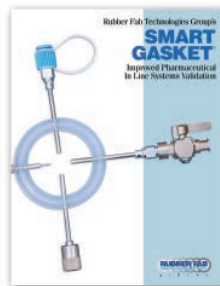
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[www.rubberfab.com](http://www.rubberfab.com)

## Also Available From Rubber Fab Technologies Group

**Design...Validation...Production  
...Quality Assurance**  
Improving Product Quality and Consistency.



Rubber Fab Technologies Group, a Material Science Company, 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](http://www.rubberfab.com).

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