

# The Pharmaceutical Family of Sanitary Gaskets

*Confidence in  
Pharmaceutical Manufacturing*



- *Tuf-Flex®*
- *Ansi-Flex*
- *Tuf-Steel®*
- *GYLON BIO-PRO®*
- *GYLON® BIO-PRO PLUS™*
- *GYLON® STRESS SAVER® Flanged Gasket*
- *GYLON® Style 3504 Flanged Gasket*

## **Rubber Fab**

a Garlock Hygienic Technologies company

## Tuf-Flex®

Tuf-Flex® is the world's only unitized seal setting new standards for purity, performance and flexibility. Designed to meet critical requirements in pharmaceutical applications, Tuf-Flex® outperforms other sanitary gaskets and increases uptime by helping eliminate costly process interruptions. 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.

An Ansi-Flex 150# Ansi Flange Gasket's contact surface is PTFE unitized to an EPDM rubber inner core. The Ansi-Flex 150# flange gasket has superior and extended service life over standard flange gaskets. To learn more about Tuf-Flex®, please visit our website at [www.rubberfab.com](http://www.rubberfab.com)

Sizes	Tuf-Flex® Part Numbers	Sizes	Ansi-Flex Part Numbers
1/2"	A42MPGR-TF-050-E	1/2"	FF-AF-E-050-150#-.197
3/4"	A42MPGR-TF-075-E	3/4"	FF-AF-E-075-150#-.197
1"	A40MPGR-TF-100-E	1"	FF-AF-E-100-150#-.197
1 1/4"	A40MPGR-TF-150-E	1 1/4"	FF-AF-E-125-150#-.197
1 1/2"	A40MPGR-TF-200-E	1 1/2"	FF-AF-E-150-150#-.197
2"	A40MPGR-TF-250-E	2"	FF-AF-E-200-150#-.197
3"	A40MPGR-TF-300-E	2 1/2"	FF-AF-E-250-150#-.197
4"	A40MPGR-TF-400-E	3"	FF-AF-E-300-150#-.197
6"	A40MPGR-TF-600-E	4"	FF-AF-E-400-150#-.197
8"	A40MPGR-TF-800-E	6"	FF-AF-E-600-150#-.197
10"	A40MPGR-TF-1000-E	8"	FF-AF-E-800-150#-.197
12"	A40MPGR-TF-1200-E		



*Tuf-Flex® Gaskets can be twisted and will retain their shape.*

## Tuf-Steel®

Composed of a unique proprietary blend of non-pigmented PTFE and 316L passivated and atomized Stainless Steel, you can bet on any Tuf-Steel® seal for leak-proof performance and outstanding durability. There is no beating the Tuf-Steel® family in SIP, WFI and high temperature applications because Tuf-Steel® maintains seal integrity in applications with large temperature variations. With a 500 steam cycle guarantee, this metal detectable gasket will easily out perform any elastomeric or perfluoroelastomer gasket and will remain in service for extended periods of time. It is the material of choice when chemical and heat resistance are required. Minimum creep and cold flow, non-stick, ultra-low absorption, no pigmentation and Tuf-Steel® will not revert. Visit [www.rubberfab.com](http://www.rubberfab.com) for more information.

Sizes	Tri-Clamp Type I Part Number	Sizes	Tri-Clamp Type I Part Number
1/2"	42MPG-TS-050	4"	40MPG-TS-400
3/4"	42MPH-TS-075	5"	40MOG-TS-500
1"	40MPG-TS-100	6"	40MOG-TS-600
1 1/2"	40MPG-TS-150	8"	40MOG-TS-800
2"	40MPG-TS-200	10"	40MOG-TS-1000
2 1/2"	40MPG-TS-250	12"	40MOG-TS-1200
3"	40MPG-TS-300		

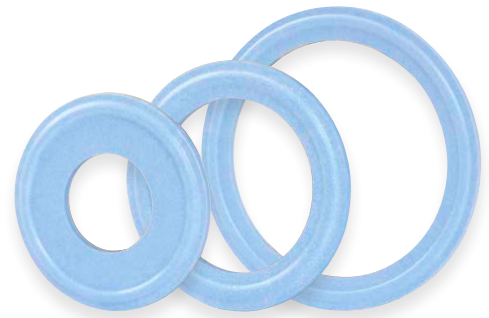


*Tuf-Steel® Gaskets can be twisted and will retain their shape.*

*Tuf-Steel® is also available in Type II Flanged, Type III Envelope Style, Sanitary O-rings, Sanitary TC Screen Gasket, Sanitary TC Orifice Plate Gasket, Steam Trap Orifice Plate Gasket, Sheet, Solid Rod, Ansi Flange, and Custom Configurations.*

## GYLON BIO-PRO®

Tri-Clamp® connections are the standard connection in the pharmaceutical industry. Seals of varying quality and materials are often used regardless of their suitability for constantly increasing operating parameters. GYLON BIO-PRO® seals offer a safe solution with its modified and restructured PTFE material, pre-formed and stress controlled, for all Tri-Clamp® standards. It is dimensionally stable and resists intrusion. Rubber Fab is proud to offer GYLON BIO-PRO® in Tri-Clamp® gaskets, ring gaskets and 150# Stress Saver gaskets.



### Features

- No extrusion and cold flow
- Temperature Range of -346°F to 500°F
- High resistance to most chemicals & temperature cycles
- Meets USP Class VI, FDA-compliant, EN 1935/2004, and KTW approved
- Learn more about GYLON BIO-PRO® at [www.rubberfab.com](http://www.rubberfab.com)

Sizes	Tri-Clamp Type I Part Number
1"	40MP-BIO-PRO-100
1 1/2"	40MP-BIO-PRO-150
2"	40MP-BIO-PRO-200
2 1/2"	40MP-BIO-PRO-250
3"	40MP-BIO-PRO-300
4"	40MP-BIO-PRO-400

## GYLON® BIO-PRO PLUS™

Manufactured from our proprietary GYLON® style 3522 modified PTFE, GYLON® BIO-PRO PLUS™ delivers best in class performance across all critical factors such as compliance, chemical compatibility, sealability, creep and cold flow. Fulfilling ASME-BPE standards for dimensional consistency, this next generation sanitary gasket ensures ease of installation and long term operational integrity in the most challenging and critical applications. GYLON® BIO-PRO PLUS™ is pre-formed and stress controlled with high manufacturing precision, helping to eliminate critical and costly contamination issues often associated with gasket recession or intrusion within hygienic couplings. With a smooth surface finish, the GYLON® BIO-PRO PLUS™ is ideal for product contact applications and is a top performer relative to both CIP and SIP cycle life, regardless of cleaning media or sterilization procedure. Our GYLON® 3522 material of construction is 100% pure PTFE, and provides full compliance with all industry standards. For more information and specifications on GYLON® BIO-PRO PLUS™ visit [www.rubberfab.com](http://www.rubberfab.com)



### Features

- Sealing integrity - proprietary GYLON® resists creep and cold flow
- Temperature Range of -450°F to 500°F
- Eliminates gasket recession and intrusion into the process flow
- Ease of removal with zero gasket residue
- Exceptional chemical and thermal cycling capabilities

Sizes	Tri-Clamp Type I Part Number
1"	40MP-BIO-PRO-PLUS-100
1 1/2"	40MP-BIO-PRO-PLUS-150
2"	40MP-BIO-PRO-PLUS-200
2 1/2"	40MP-BIO-PRO-PLUS-250
3"	40MP-BIO-PRO-PLUS-300
4"	40MP-BIO-PRO-PLUS-400

## GYLON® STRESS SAVER®

The new Style 3504 GYLON® STRESS SAVER® combines these proven sealing advantages with the performance characteristics of the industry recognized GYLON® 3504. The molded raised ribs help to create a tighter seal by concentrating the compressive load, ideal for lightweight piping. The combination of these two time-tested configurations make Style 3504 GYLON® STRESS SAVER® the ultimate sealing solution. More information can be found at [www.rubberfab.com](http://www.rubberfab.com).

Sizes	Tri-Clamp Type I Part Number
1"	FF-SS-3504-100-150#-.125
1 1/2"	FF-SS-3504-150-150#-.125
2"	FF-SS-3504-200-150#-.125
3"	FF-SS-3504-300-150#-.125
4"	FF-SS-3504-400-150#-.125
6"	FF-SS-3504-600-150#-.125
8"	FF-SS-3504-800-150#-.125

## GYLON® Style 3504®

GYLON® Style 3504 is a PTFE Gasket with aluminosilicate microsphere filler. This style gasket is widely used in glass-lined flanges and other light-duty flanges where available torque is limited. GYLON® Style 3504 creates a tighter seal with improved performance over conventional PTFE which reduces product loss and emissions. The unique manufacturing process minimizes cold flow problems typical of skived and expanded PTFE sheets and has excellent bolt torque retention. GYLON® Style 3504 can withstand a wide range of chemicals for extended service life in a wide variety of applications. To learn more about GYLON® Style 3504, please visit [www.rubberfab.com](http://www.rubberfab.com)

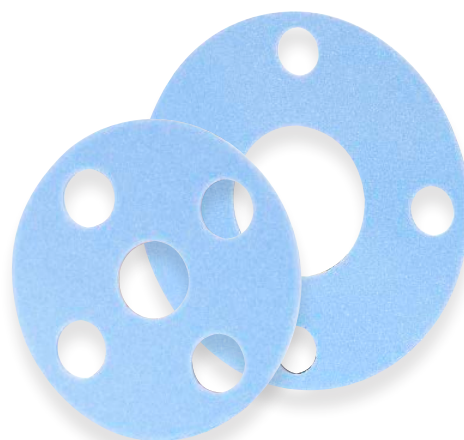
Sizes	Tri-Clamp Type I Part Number	Sizes	Tri-Clamp Type I Part Number
1/2"	FF-3504-050-150#-.XXX	4"	FF-3504-400-150#-.XXX
3/4"	FF-3504-075-150#-.XXX	4 1/2"	FF-3504-450-150#-.XXX
1"	FF-3504-100-150#-.XXX	5"	FF-3504-500-150#-.XXX
1 1/4"	FF-3504-125-150#-.XXX	6"	FF-3504-600-150#-.XXX
1 1/2"	FF-3504-150-150#-.XXX	7"	FF-3504-700-150#-.XXX
2"	FF-3504-200-150#-.XXX	8"	FF-3504-800-150#-.XXX
2 1/2"	FF-3504-250-150#-.XXX	10"	FF-3504-1000-150#-.XXX
3"	FF-3504-300-150#-.XXX	12"	FF-3504-1200-150#-.XXX
3 1/2"	FF-3504-350-150#-.XXX		

GYLON® Style 3504 comes in .0625" and .125" thicknesses. Replace .XXX with the thickness needed.



### Features

- Suitable for both metallic and non-metallic piping with either flat or raised face flanges
- GYLON® 3504 is ideal for a wide range of caustics and acids, helping to simplify the selection process
- Limited Creep and Cold-Flow – Greatly reduces the leakage after installation and system cycling



### Features

- Improved performance over conventional PTFE
- Unique manufacturing process minimizes cold flow problems
- Withstands a wide range of chemicals for extended service life in a wide variety of applications
- Ideal for wavy, warped, pitted, or scratched flanges, and for many types of flat faced flanges.

# Rubber Fab

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