

# Garlock NSF/ANSI 61

Certified Gasket Materials for Potable (Drinking) Water Systems



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NSF standards ensure that drinking water is clean, safe and cover almost all components used in municipal water systems. In the past, Garlock has received numerous inquiries about gaskets that are NSF/ANSI 61 Certified, but recently this certification has become a requirement for many customers.

When a gasket is submitted for testing, the formulation is reviewed for prohibited substances, and then tested for contaminants that could leach out of the gasket into your drinking water.

Garlock proudly offers 6 different gasketing products that are NSF/ANSI 61 certified: GYLON® 3505, GYLON® 3522, MULTI-SWELL™ 3760-U, STRESS SAVER® XP, 3505 STRESS SAVER® and Style 98206 (EPDM).

### GYLON® 3505

Style 3505 is the Oxygen service version of our famous 3504 BLUE GYLON® and is newly tested and certified to NSF/ANSI 61. GYLON® Style 3505 is a high performance restructured PTFE material with glass microsphere filler, which provides the necessary compression to conform to and seal less than perfect flanges. This material is designed for use in raised face and most metallic flat face flanges.

### SPECIFICATIONS

<b>Color</b>	Blue GYLON®
<b>Composition</b>	PTFE with glass microspheres
<b>Temperature<sup>1</sup></b>	Min -450°F (-260° C) Cont. Max. +500°F (+260°C)
<b>PxT (max)<sup>1</sup></b> (psig x °F)(bar x °C)	350,000 (12,000) 1/16" and 1/32" 250,000 (8,600) 1/8"
<b>Pressure<sup>1</sup></b>	800 psig (55 bar)

*NOTE: <sup>1</sup> Based on ANSI RF Flanges at our preferred torque. When approaching maximum pressure, temperature or 50% of maximum PxT, consult Garlock Engineering.*

The excellent dielectric resistance of this material makes it perfect for pipelines requiring cathodic protection. It can be cut or welded into any flange shape using our patented Thermal Bonding process, eliminating the need for dovetails on large gaskets. All thermally bonded gaskets will be stamped GARLOCK to ensure that you receive genuine Garlock product.

### GYLON® STYLE 3505/STRESS SAVER® 3505

Restructured PTFE material designed for use on higher pressure raised face or flat face flanges. Available in sheet, cut gaskets, or as a Stress Saver® 3505.

### MULTI-SWELL™ STYLE 3760-U

Aramid fiber gasket with a proprietary rubber binder designed to swell upon contact with water to create a seal; used in both raised and flat face flanges.

### STRESS SAVER® XP

Molded fluoroelastomer product designed for use in both metallic and non-metallic, flat faced flanges up to 24" pipe.

### RUBBER SHEET STYLE 98206

High performance EPDM sheet material intended for use in standard and non-standard flat face flanges.

### GYLON® 3522 GASKET AND DIAPHRAGM

Made using a proprietary process which optimizes quality and uniformity, this material offers the longest cycle life in the industry.

# NSF/ANSI 61: Certified Gasket Materials

## MULTI-SWELL™ STYLE 3760-U

Over 70% of gasket failures are due to lack of load.

MULTI-SWELL™ Style 3760-U Gaskets react with water or oil to create its own load. Problems with low load applications and leakage are a thing of the past.

MULTI-SWELL™ can replace vegetable fiber gaskets in many applications – it won't weep, improving plant safety. It also performs well in higher load flanges where elastomeric or rubber gaskets may otherwise be crushed.

*-the world's only premier self-loading general service gasket.*



## SPECIFICATIONS

<b>Composition</b>	Synthetic fiber sheet with a proprietary rubber binder
<b>Temperature</b>	Min -40°F (-40° C) Cont. oper. +400°F (+205°C)
<b>PxT (max)</b> (psig x °F)(bar x °C)	150,000 (5,1000) 1/16" and 1/32" 100,000 (3,400) 1/8"
<b>Pressure<sup>1</sup></b>	500 psig (35 bar)

*NOTE: <sup>1</sup> Based on ANSI RF Flanges at our preferred torque. When approaching maximum pressure, temperature or 50% of maximum PxT, consult Garlock Engineering.*

\*NSF/ANSI 61 certified for use in the following:

» 1" through 144" flange/pipe sizes up to 1/8" thickness

*NOTE: Please request 3760-U, the unbranded version of 3760.*

## STRESS SAVER® XP

The XP is a molded fluoroelastomer designed to form a tight, long lasting seal with the low gasket stresses typically associated with non-metallic piping systems. The XP is available in standard 150# class configuration up to 24". This gasket incorporates raised ribs that concentrate the loading force and enable a seal with less torque than expanded PTFE gaskets; a key benefit given the torque limitations on PVC, CPVC, FRP, and other non-metallic flanges.



## SPECIFICATIONS

<b>Color</b>	Black
<b>Composition</b>	Proprietary blend of fluoroelastomers (70 durometer)
<b>Temperature</b>	Min -15°F (-26° C) Max. +400°F (+240°C)
<b>PxT max</b> (psig x °F) (bar x °C)	50,000 (1717)
<b>Pressure</b>	250 psig (17 bar)

Unlike other elastomeric gaskets, the STRESS SAVER® XP is free of the plasticizing oils that can degrade non-metallic piping systems, such as PVC, and CPVC. For this reason, the gasket is suitable for use with FlowGuard Gold®, Corzan® CPVC and BlazeMaster® pipe and fittings, and carries the Lubrizol FBC™ System Compatible certification. At this time, the STRESS SAVER® XP is the only gasket to carry this FBC™ System Compatible certification.

## GARLOCK STYLE 98206

Style 98206 EPDM sheet gasket material has improved crush resistance; a clear advantage over other elastomeric gasket materials. It is also available in roll form and it can be easily cut to fit any size flange.

### SPECIFICATIONS

<b>Color</b>	Black
<b>Composition</b>	EPDM with Sulfur Cure (85 durometer)
<b>Temperature</b>	Min -40°F (-40° C) Max. +275°F (+135°C)
<b>PxT max</b> (psig x °F) (bar x °C)	30,000 (900)
<b>Pressure</b>	175 psig (12 bar)



Additionally, Garlock 98206 seals with lower loads than those typically associated with compressed non-asbestos gasket material. This creates savings by enabling the use of lower yield, less expensive bolts.

Style 98206 EPDM is also available in custom molded products used within the water infrastructure; products such as gate valves, butterfly valves, and pipe gaskets.

## GYLON® STYLE 3522

Exclusive to Garlock, this time proven product is made using a proprietary process which optimizes quality and uniformity. Using the best available technology GYLON® PTFE diaphragms offer the longest cycle life in the industry, and continue to outperform all competitive materials.

### SPECIFICATIONS

<b>Color</b>	Clear, translucent
<b>Composition</b>	PTFE
<b>Temperature</b> (Cont. Max.)	+500°F (+260°C)
<b>Pressure</b>	800 psig (55 bar)

