

# Garlock GYLON® Style 3505 Gasketing

Style 3505 is the Oxygen service version of our famous Style 3504 Blue GYLON®, and newly certified to comply with NSF-61. GYLON 3505 is made using glass microsphere filled PTFE and is compressible enough to fill in voids and seal imperfect flanges. This material is designed for use in metallic raised face flanges and most metallic flat face flanges. It can also be cut or welded into any shape. GYLON® Style 3505 is also FDA compliant.

## Garlock NSF 61 Approved Gasket Materials for Potable (Drinking) Water Systems

NSF 61 ensures that drinking water is clean and safe, and covers almost any type of component used in municipal water systems. In the past, Garlock would receive inquiries about gaskets that meet this standard, but in the very recent past this standard has become a REQUIREMENT.

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

Garlock proudly offers three different gasketing products that are NSF/ANSI 61 approved: GYLON® 3505, STRESS SAVER® XP, and Style 98206.



## Value & Benefits

### Tighter seal

- Improved performance over conventional PTFE
- Reduced product loss and emissions

### Reduced creep relaxation

- Unique manufacturing process minimizes cold flow problems typical of skived and expanded PTFE sheets
- Excellent bolt torque retention

### Chemical resistance

- Withstands a wide range of chemicals for extended service life in a wide variety of applications

### Cost savings

- Cuts operational costs through reduced:
  - Fluid loss
  - Energy consumption
  - Maintenance costs
  - Inventory costs
  - Waste

### Largest sheet sizes\*

- Offers some of the largest sheet sizes in the industry
- Improved material utilization reduces waste

\* 60" x 60" (1524 mm x 1524 mm), 70" x 70" (1778 mm x 1778 mm), 60" x 90" (1524 mm x 2286 mm)

**Garlock**  
SEALING TECHNOLOGIES®

# Specifications

<b>Color</b>	Blue GYLON®
<b>Composition</b>	PTFE with glass microspheres
<b>Temperature<sup>1</sup></b>	Min -450°F (-268°C) Cont. Max. +500°F (+260°C)
<b>PxT (max)<sup>1</sup></b>	350,000 (12,000) 1/16" and 1/32" 250,000 (8,600) 1/8"
<b>Pressure<sup>1</sup></b>	800 psi (55 Bar)
<b>Sealability</b>	
<b>ASTM Fuel A</b> ml/hr (ASTM F37B) <sup>2</sup>	0.12
<b>Gas Permeability</b> cc/min. (DIN 3535 Part 4) <sup>3</sup>	<0.015
<b>Creep Relaxation</b> % (ASTM F38)	40
<b>Compressibility Range</b> (ASTM F38) %	25-45
<b>Recovery</b> (ASTM F36) %	>30
<b>Tensile Strength</b> psi (ASTM D1708) (N/mm <sup>2</sup> )	>30
<b>Flammability</b>	Will not support flame
<b>Bacterial Growth</b>	Will not support

## Notes:

- Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, temperature or 50% of maximum PxT, consult Garlock Engineering.
- ASTM F37B Sealability, milliliters/hour (1/32" thick)  
ASTM Fuel A (isooctane):  
Gasket load = 1,000 psi (7 N/mm<sup>2</sup>),  
Internal pressure = 9.8 psig (0.7 bar)
- DIN 3535 Part 4 Gas Permeability, cc/min. (1/16" thick)  
Nitrogen: Internal pressure = 580 psig (40 bar),  
Gasket load = 4,640 psi (32 N/mm<sup>2</sup>)

## Thermally Bonded GYLON®

### Benefits

#### Effective seal

- Patented bonding process to produce large gaskets without dovetailed joints insuring a quality seal
- GYLON® material provides the excellent chemical resistance of PTFE without creep relaxation and cold flow problems

#### Versatile

- Ideal for corrosive applications with extra-large flanges
- Styles 3500, 3502, 3503, 3504, 3505, 3510, HP 3560, HP 3561, 3565, and 3594 can all be welded using this process

For more information on NSF-61 visit:

<http://www.nsf.org/Certified/PwsComponents/Listings.asp?Company=4J410&Standard=061>

## AUTHORIZED REPRESENTATIVE

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#### WARNING:

Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Garlock. Failure to select the proper sealing products could result in property damage and/or serious personal injury.

Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing.

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