



# STA-PURE™ Pipe Gasket

FOR PHARMACEUTICAL AND FOOD PROCESSING

Style 1500

## Unique Low Stress-to-Seal Design — Ideal for Steel, Glass-Lined and FRP Systems

GORE® STA-PURE™ Pipe Gasket Style 1500 delivers and maintains exceptional flange sealing performance in metal, glass-lined steel and FRP piping systems for pharmaceutical, food and beverage processing.

### Unmatched Performance and Durability

Featuring a unique proprietary design of 100% expanded PTFE (ePTFE), Style 1500 gaskets deliver an unmatched combination of performance characteristics:

- Low stress-to-seal, even in the most fragile plastic and glass-lined flanges
- Dimensionally stable ePTFE that provides superior creep resistance
- Chemically inert gasketing that resists highly-aggressive process media
- Dimensionally stable, even at elevated temperatures and pressures

### Superior Quality Systems and Material Composition

Chemically-inert Style 1500 gaskets are tested and manufactured under quality systems and relevant cGMPs that deliver a consistent material composition and comply with the most demanding requirements including:

- USP Class VI <88> Biocompatibility
- U.S. Food Contact – 21 CFR 174.5(d)

### System-Wide Suitability

Designed to meet the needs of many different piping materials, Style 1500 gaskets are the ideal choice to standardize gaskets system-wide. They are available in a wide variety of sizes, dimensioned to match industry standard flange-seating geometries.



### Key Features

- 100% proprietary ePTFE
- Resistant to creep and cold flow
- Chemically inert
- Low bolt load to seal
- Dimensionally stable
- High-temperature resistant
- Consistent material composition

### Key Benefits

- Maintains durable, reliable seals
- Standardize: use one gasket system-wide
- Protects against use of wrong gasket
- Lowers total system costs
- Documented lot traceability



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### Technical Data and Properties

#### Material

100% expanded PTFE, with multi-directional strength

#### Temperature Stability

Expanded PTFE is stable in temperature ranges typically found in food and pharma applications: -100°C to 315°C (-148°F to 600°F).

#### Stress to Seal (Nominal Values)

<b>Qmin<sup>1</sup></b>	1.5 mm (1/16 in) = 10 MPa (1450 psi)
	3.0 mm (1/8 in) = 10 MPa (1450 psi)
	6.0 mm (1/4 in) = 10 MPa (1450 psi)

<b>Qsmin<sup>1</sup></b>	1.5 mm (1/16 in) = 5 MPa (725 psi)
	3.0 mm (1/8 in) = 5 MPa (725 psi)
	6.0 mm (1/4 in) = 5 MPa (725 psi)

<b>y<sup>2</sup></b>	1.5 mm (1/16 in) = 10 MPa (1450 psi)
	3.0 mm (1/8 in) = 10 MPa (1450 psi)
	6.0 mm (1/4 in) = 10 MPa (1450 psi)

<b>m<sup>3</sup></b>	1.5 mm (1/16 in) = 1.25
	3.0 mm (1/8 in) = 1.25
	6.0 mm (1/4 in) = 1.25

1 Based on EN13555 for a DN40 PN40 gasket, a 0.1 mg/s-m leak rate, ambient temperature and 40 bar internal pressure

2 Calculated from the EN13555 Qmin test results for a DN40 PN40 gasket

3 Calculated from the EN13555 Qsmin test results for a DN40 PN40 gasket

#### Chemical Resistance

Resistance to all media in range of pH 0 – 14 (except alkali metals and elemental fluorine, particularly at elevated temperatures).

#### Creep Relaxation (Nominal Values)

<b>Pqr<sup>4</sup></b>	23°C (73°F)
	1.5 mm (1/16 in) = 0.90
	3.0 mm (1/8 in) = 0.84
169°C (336°F)	6.0 mm (1/4 in) = 0.79
	1.5 mm (1/16 in) = 0.71
	3.0 mm (1/8 in) = 0.52
6.0 mm (1/16 in) = 0.43	

#### Available Sizes

1/2 in through 12 in nominal pipe flanges (NPS) per ASME B16.21 Class 150 and 300  
DN 10 – 300, PN2.5, PN6, PN10, PN16, PN25 and PN40 per EN1514

4 Based on EN13555 for a DN40 PN40 gasket and an initial gasket stress of 20 MPa (2900 psi)

### About Gore PharmBIO Products

Gore PharmBIO Products brings together our core technologies, capabilities and competencies to uniquely satisfy the evolving product and quality needs of our pharmaceutical, bioprocessing and other life sciences customers.

Products — like GORE® STA-PURE™ Pipe Gasket — provide creative solutions to our customers' design, manufacturing or performance-in-use needs.

Our Manufacturing Center of Excellence ensures that our quality systems continue to meet the changing needs of our customers in highly-regulated industries.

### Compliance Statements

The gaskets comply with relevant FDA requirements regarding food contact substances. Consistent with 21 CFR 174.5(d), each component is composed of substances that are either: (1) listed or affirmed as generally recognized as safe under 21 CFR Parts 182 or 184; (2) covered by, and meeting all relevant specifications and other requirements in, an indirect food additive regulation under 21 CFR Parts 175, 176, 177 and 178, or (3) used in accordance with an effective food contact substance notification under section 409(h) of the FDCA.

The gaskets are tested and meet the requirements of USP Class VI «88».

It is the responsibility of the customer to determine the suitability of the gaskets for the customer's particular application.

Supplied By:

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