



# GORE™ STA-PURE®

## TUBING

*Resists high pressure and high mechanical stress*

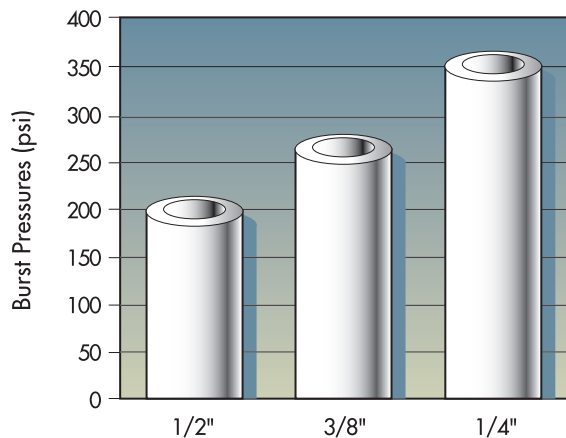
## Unmatched Performance in Demanding Applications

### FOR PERISTALTIC PUMPS AND PINCH VALVES

GORE™ STA-PURE® high resilience pump tubing helps critical fluid handling processes run more cost-effectively. It delivers superior protection against bursting and product contamination – over a much longer time compared to conventional tubes. It maintains stable flow rates over time, handles high pressures, and high mechanical stress and virtually eliminates spallation. Using GORE™ STA-PURE® tubing means fewer changeouts and higher-purity fluid handling, so you can transfer media with utmost security and confidence.

Flexible and highly durable GORE™ STA-PURE® tubing performs exceedingly well in the most sensitive and sanitary production environments. Its unmatched purity significantly increases process consistency and product integrity, making it an excellent choice for pharmaceutical and biopharmaceutical applications.

### HIGHEST PRESSURE RATING



*Burst pressures of GORE™ STA-PURE® tubing at various bore sizes*

The unique composite construction of GORE™ STA-PURE® tubing provides superior burst resistance compared to non-reinforced silicone rubber and thermoplastic elastomer tubing. With burst strength approaching 360psi (24 atm), the tubing can operate at elevated pressures for transfer, filtration, purification and in-line sterilization operations.



### KEY FEATURES

- Provides greater security in peristaltic pumps and pinch valves
- Enables continuous high-pressure pumping
- Maintains stable flow rate
- Eliminates spallation
- Manufactured in a clean room environment

### KEY BENEFITS

- Easy installation
- Superior tube life
- Reduced maintenance, with less downtime from tube rotation or replacement
- Increased process consistency and purity — protects your product



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# GORE™ STA-PURE®

## TUBING

### VIRTUALLY ELIMINATES SPALLATION

The exceptional toughness of the composite structure of GORE™ STA-PURE® tubing provides superior resistance to cracking and abrasion, virtually eliminating spallation. This means the risks of filter plugging and product contamination are significantly reduced without sacrificing tube life. Moreover, process streams stay cleaner, thereby reducing downstream filtration requirements. The end result: increased efficiency and throughput, along with reduced downtime.



*Spallation debris collected onto a microporous filter membrane after recirculating water for 48 hours through thermoplastic elastomer tubing (left) and GORE™ STA-PURE® tubing (right). The thermoplastic elastomer tube produces particles of rubber, inorganic filler, and plasticizer.*

### SMOOTH BORE REDUCES CONTAMINATION

The interior of GORE™ STA-PURE® tubing is significantly smoother than thermoplastic elastomer tubing. During pumping, thermoplastic elastomer tubing generates particulates that are expelled into the process stream. The RMS surface roughness is substantially increased, whereas GORE™ STA-PURE® tubing shows only a slight change in surface characteristics.



*Various sanitary end connections, specifically designed for use with GORE™ STA-PURE® tubing, are available in molded silicone or stainless steel. Custom peristaltic pump line sets are also available.*



### CONNECTIONS AND FITTINGS

GORE™ STA-PURE® tubing is available with a variety of sanitary end connections. These include:

- Molded silicone
- Crimped stainless steel
- Reusable stainless steel

Custom line sets that enable GORE™ STA-PURE® tubing to be integrated into your bioprocess are also available and can be designed with the GORE™ Bioprocess Configurator. Consult Gore for details.

### PRODUCT CONFIGURATION

- Tubing ID ranges from 1.6 mm to 40 mm
- Wall thickness ranges from 0.8 mm to 13 mm
- Tubing available in a range of pump sizes
- Meets USP Class VI and EP 3.1.9 standards
- FDA Type II Material Master File is available for citation

### FURTHER INFORMATION/ORDERING

For detailed selection criteria, technical assistance, and installation guidelines contact the application engineers at W. L. Gore & Associates, Inc. at **410-506-7787**, or [pharmbio@wlgore.com](mailto:pharmbio@wlgore.com).



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