

## **GORE® STA-PURE Series PFL**

PTFE-reinforced fluoroelastomer tubing

**The tubing material with  
all the advantages**

### **Exceptional life and chemical resistance**

STA-PURE PFL handles nearly all aggressive chemicals, including organic solvents such as methyl ethyl ketone, toluene and acetone. With STA-PURE PFL, even the toughest pumping operation can benefit from the advantages of peristaltic pumping

### **Minimal breakdown risk**

Under transfer conditions, STA-PURE PFL tubes operate more than 50 times longer than other fluoroelastomer tubing: thousands of hours of uninterrupted pumping, with minimal risk of burst or other tube breakdown.



### **STA-PURE PFL offers exceptional life, exceptional chemical resistance and exceptional purity**

- Highly resistant to aggressive chemicals, including organic solvents
- 50 times longer life than other fluoroelastomers
- Extraordinary burst resistance
- USP and FDA approval for pharmaceutical and food use
- Negligible solvent swell
- Stable flow rate over time
- Pressures up to 60 psi

**The ideal tubing choice in pharmaceutical  
applications, speciality chemical industries and  
solvent-based processing applications**

## Unbeatable purity

STA-PURE PFL is a high-performance composite of PTFE and a high-grade fluoroelastomer, giving extraordinary chemical resistance, extremely long life and very high burst pressures. It is free from plasticizers, acid acceptors and other processing aids, making it one of the purest tubings available. Leachability tests using ethyl acetate yielded over 100 times less total extractables than other fluoroelastomer tubing materials. In addition, STA-PURE PFL has passed FDA food contact certification and stringent Class VI tests for pharmaceutical applications.

**Widely used for solvent-based processing, transfer and metering, handling aggressive chemicals such as monobutyltintrichloride, methyl ethyl ketone, toluene and acetone.**

STA-PURE PFL	Typical values
Material	ePTFE and fluoroelastomer composite
Color / transparency	Off-white / opaque
Spallation	Excellent
Life, hours	313/314, 520R, 620R pumpheads: 1,000hr
Certification	USP Class VI, FDA reg. 21 CFR 177.2600 for aqueous food contact. ISO 10993-1, USDA and 3A approved
Sterilization methods	Autoclave, CIP, SIP: refer to Watson-Marlow for details
Operating temperature	-20C-80C
Hardness, shore A (5 sec)	60
Specific gravity	-
Tear B, ppi	-
Ultimate tensile strength, psi	-
Elongation at break, %	-
Tensile stress at 100% elongation, psi	-
Compression set, %	-
Weather resistance	Excellent
Sunlight resistance	Excellent
Gas permeability, O <sub>2</sub> cc.cm x 10 <sup>-8</sup> / cm <sup>2</sup> .sec.atm	-
Gas permeability rating	-
Water absorption	Good
Odor	Excellent
ASTM methods: Hardness: ASTM D 2240; Specific gravity: ASTM D 792; Tear B, Ultimate tensile strength, Elongation at break, Tensile stress at 100% elongation: ASTM D 412	

Bore		Wall		No	Element length	Part number
inch	mm	inch	mm			
1/16	1.6	1/16	1.6	14	305mm	965.0016.016
1/8	3.2	1/16	1.6	16		965.0032.016
3/16	4.8	1/16	1.6	25		965.0048.016
1/4	6.4	1/16	1.6	17		965.0064.016
5/16	8.0	1/16	1.6	18		965.0080.016
1/16	1.6	1/16	1.6	14	355mm	965.0016.L16
1/8	3.2	1/16	1.6	16		965.0032.L16
3/16	4.8	1/16	1.6	25		965.0048.L16
1/4	6.4	1/16	1.6	17		965.0064.L16
5/16	8.0	1/16	1.6	18		965.0080.L16
1/16	1.6	3/32	2.4	119		965.0016.024
1/8	3.2	3/32	2.4	120		965.0032.024
3/16	4.8	3/32	2.4	15		965.0048.024
1/4	6.4	3/32	2.4	24		965.0064.024
5/16	8.0	3/32	2.4	121		965.0080.024
3/8	9.6	3/32	2.4	122	610mm	965.0096.024
1/4	6.4	1/8	3.2	26		965.0064.032
3/8	9.6	1/8	3.2	73		965.0096.032
1/2	12.7	1/8	3.2	82		965.0127.032
3/4	15.9	1/8	3.2	184		965.0159.032

## STA-PURE PFL for compatibility

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Members of the Spirax-Sarco Engineering Group

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**WARNING** These products are not designed for use in, and should not be used for, patient-connected applications.

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Tubing

Value for life