



Purillex™ PFA and FEP Bottles

Savillex's Purillex™ range of fluoropolymer bottles are the cleanest, safest and highest performing fluoropolymer bottles ever produced. Available in both PFA and FEP, Purillex bottles are manufactured by a stretch blow molding process, adapted for fluoropolymer use by Savillex. This provides several key benefits, including lower trace metal background, smoother surface finish, easier pouring and superior sealing. Purillex bottles are used as product packaging by high purity acid manufacturers and in many trace metals labs around the world. They are also used in the pharmaceutical industry for storing and shipping API and intermediates.

Design Features

Compared with the traditional extrusion blow molding process used to manufacture all other PFA and FEP bottles, stretch blow molding produces a much smoother surface, resulting in more effective cleaning between uses and reduced risk of carryover of trace metals. Stretch blow molding also enables more accurate and precise molding of the bottle neck and threads, producing a much more secure, leak-free seal.

A full 2.5 thread turns gives Purillex bottles greater thread engagement than any other fluoropolymer bottle, and allows the large GL45 closure to be tightened more securely, eliminating the need for a cap liner or a sealing insert and ensuring long term seal integrity. The smooth, injection molded inner neck shape and the absence of burrs, flash or other molding imperfections on the lip of the bottle allow controllable, drip-free pouring – an important safety feature when dispensing concentrated acids.

Trace Metal Background

Of key importance for trace metal applications is the cleanliness of the bottle. Purillex bottles are manufactured using only the highest purity grades of virgin PFA and FEP resin. We also designed and built a fluoropolymer stretch blow molding system that fits in a cleanroom. All Purillex bottles are manufactured and sealed in bags inside our cleanroom, ensuring the cleanest possible product.

Size Availability

Purillex bottles are available in 50 mL, 100 mL, 250 mL, 500 mL, 1000 mL and 2000 mL sizes, in both PFA and FEP. The wide mouthed 45 mm diameter neck accepts a GL45 threaded closure (33 mm diameter neck and closure on 50 mL bottle). A closure is included with the bottle.

Working Temperature Range

PFA Bottles: -328°F to 500°F (-200°C to 260°C)

FEP Bottles: -328°F to 392°F (-200°C to 200°C)

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Savillex Data Sheet

Testing

Savillex has performed comprehensive internal testing on all Purillex bottles including drop test, leakproof test, vacuum resistance and pressure burst test. Test data available on request.

Biopharma Versions

This data sheet covers the 150 series Purillex bottles, designed for general trace metals use. Dedicated biopharma versions (170 series) are also available. The 170 series Purillex bottles have undergone full USP testing and come with manufacturing lot certification and full support for biopharma applications.

Please contact us for more information on the 170 series bottles, and to request the validation binder, available under NDA.



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50 mL, 100 mL, 250 mL, 500 mL, 1000 mL and 2000 mL

Bottle Ordering Information

Bottle Size	Closure	PFA Part #	FEP Part #
50 mL	33 mm	150-01-0050	150-02-0050
100 mL	GL45	150-01-0100	150-02-0100
250 mL	GL45	150-01-0250	150-02-0250
500 mL	GL45	150-01-0500	150-02-0500
1000 mL	GL45	150-01-1000	150-02-1000
2000 mL	GL45	150-01-2000	150-02-2000

*All bottles include a closure

Optional Closure Ordering Information

Closure Size	Closure Description	PFA Part #	FEP Part #
GL45	Plain Threaded	600-045-01	600-045-02
GL45	Septa	600-045-72	-
GL45	Transfer. Two 1/4" Ports (top,side)	600-045-36	-
GL45	Transfer. Two 1/8" Ports (top, side)	600-045-26	-
GL45	Transfer. Two 1/4" Ports (top, side) with Vent Nut	600-045-46	-
33 mm	Plain Threaded	600-033-01	600-033-02
33 mm	Recessed	600-033-71	-
33 mm	Transfer. Two 1/4" Ports (top, side)	600-033-36	-