



Lab Bottles

Savillex's lab bottles are the cleanest, safest and highest performing fluoropolymer bottles ever produced. The 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. Bottles are used as product packaging by high purity acid manufacturers and in many trace metals labs around the world.

Design Features

Compared with the traditional extrusion blow molding process used to manufacture all other 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 3.5 thread turns gives 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. The bottles are manufactured using only the highest purity grades of virgin resin. We also designed and built a fluoropolymer stretch blow molding system that fits in a cleanroom. All bottles are manufactured and sealed in bags inside our cleanroom, ensuring the cleanest possible product.

Size Availability

The lab bottles are available in 50 mL, 100 mL, 250 mL, 500 mL, 1000 mL and 2000 mL sizes. 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 Lab Bottles: -328°F to 500°F (-200°C to 260°C)

Testing

Savillex has performed comprehensive internal testing on all bottles including drop test, leakproof test, vacuum resistance and pressure burst test. Savillex lab bottles have also passed *ASTM D4991-07 (2015) Standard Test Method for Leakage Testing of Empty Rigid Containers by Vacuum Method* at an independant testing lab. Test data available on request.

Life Science Versions

This data sheet covers the lab bottles, designed for general trace metals use. Purillex® bottles, designed specifically for life sciences applications, are also available. Purillex bottles have undergone full USP testing and come with manufacturing lot certification and full support for Life Science applications.

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



Lab Bottles

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

Bottle Ordering Information

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

*All bottles include a plain threaded closure.

Optional Closure Ordering Information

| Closure Size | Closure Description | Part # |
|--------------|--|------------|
| GL45 | Plain Threaded | 600-045-01 |
| 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 |
| 33 mm | Recessed | 600-033-71 |
| 33 mm | Transfer. Two 1/4" Ports (top, side) | 600-033-36 |

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