



50 mL PFA Block Digestion Tubes

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Savillex's PFA block digestion tubes are the cleanest and highest performing block digestion tubes available. Molded from only the highest purity grades of PFA, they are cleaner than any polypropylene or PTFE digestion tube, giving a lower trace metal background – important for digestions that are to be analyzed by ICP-MS. PFA is the ultimate choice of material for block digestion tubes because it has a high working temperature range and is inert to all strong mineral acids (including HF), inorganic bases, inorganic oxidizing agents, salt solutions and organics.

Design Features

Savillex PFA block digestion tubes are thin walled and translucent - making them much more convenient for use than PTFE tubes, which are white and opaque. The translucency of Savillex tubes approaches that of traditional polypropylene tubes, making it easy to see the liquid level inside and also check for undissolved solids in the bottom of the tube.

The flat base and thin side walls offer excellent heat conductivity for fast, even heating, and the tubes fit into any standard block digestion system that accepts 50 mL (nominal) tubes. The 50 mL PFA block digestion tubes (Savillex part number 210-050-70) are supplied with a polypropylene closure, and are also compatible with most polypropylene closures commonly supplied with 50 mL polypropylene digestion tubes. The tubes also accept a 33 mm diameter PFA closure (Savillex part number 600-033-01 - purchased separately) for the ultimate in cleanliness – only high purity PFA comes into contact with the sample. For special applications, a transfer closure with 1/8 in push in side ports (600-033-23) can be used to digest samples for ultratrace measurement. Filtered, clean air enters through one side port and passes over the sample, and acid vapors are removed to exhaust through the other port. This eliminates the possibility of airborne particles contaminating the sample during digestion. Other optional PFA closures are also available.

The working temperature range of PFA is -200°C to 260°C, which allows the tubes to be used for high temperature block digestion methods. A scribed graduation mark (ring) at 50 mL is accurate to Class A specifications, and a molded collar below the thread allows the tubes to be lifted out of the digestion block using racks typically supplied by block manufacturers. Savillex tubes are cleaner than PTFE tubes with respect to trace metals, because they are injection molded from the highest purity grades of PFA resin. In contrast, PTFE tubes are not molded, but manufactured from lower purity PTFE by machining, which can add metal contamination. The smoother, injection molded surface finish of the Savillex PFA tubes also makes them easier to clean after each use.

Specifications

Important: The PFA digestion tube is not a pressure vessel - digestions must not be performed with the supplied polypropylene closure or the optional PFA closures (600-033-01 and 600-033-71) fitted. Digestions can be performed with either of the transfer closures (600-033-23 or 600-033-26), provided at least one of the ports is open or ducted to an exhaust vent.



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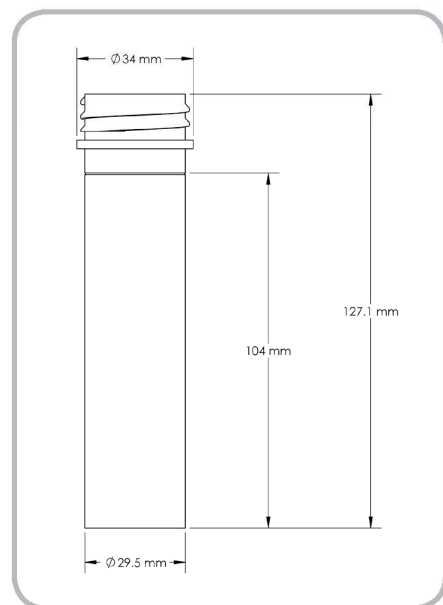
Saville Data Sheet

Working Temperature

Range of PFA: -370°F to 500°F (-200°C to 260°C)

Dimensions

Description	Size
Tube Body Diameter	29.5 mm
Collar Diameter	34.0 mm
Height (no closure)	127.1 mm
Height to 50 mL Graduation Line	104.0 mm
Capacity (to the brim)	61 mL



Ordering Information

Description	Part #
50 mL PFA Block Digestion Tube, Threaded Top, With Graduations, Includes a Threaded Polypropylene Closure	210-050-70

Optional Closures

Description	Part #
33 mm PFA Closure	600-033-01
33 mm PFA Transfer Closure with (2) 1/8" Push-in Side Ports	600-033-23
33 mm PFA Transfer Closure with (2) 1/8" OD Ports (Top, Side)	600-033-26
33 mm Recessed PFA Closure (Accepts Nomex Labels for Labeling)	600-033-71