



Nalgene syringe filters



Greener by design™

 **Less waste:**
24–51% less plastic than competitors' filters

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Introduction

We are committed to designing our products with the environment in mind. This fact sheet provides the rationale behind the environmental claim that this product produces less waste than competitors' products. Thermo Scientific™ Nalgene™ 25 mm Syringe Filters perform as well as 30 mm or 33 mm diameter products in most applications, and produce less plastic waste due to their compact design. The entire product line has been redesigned to use less plastic, so fewer resources are used regardless of the filter size selected.

Product description

Nalgene™ syringe filters can handle sample volumes of 10–100 mL. A broad range of membranes and pore sizes is available for laboratory applications for aqueous and nonaqueous fluids as well as gases.

Nalgene syringe filters are color-coded, with membrane and pore size printed on each one to help assure that you use the right filter for your application (Figure 1). The lot number and expiration date are also printed on individual packages for easy traceability.



Figure 1. Nalgene syringe filters are smaller than competitors' filters. Nalgene 25 mm filters (left) compared to (A) Pall™ 25 mm and 32 mm filters and (B) Millipore™ 33 mm filters.

Green feature

Less waste and fewer resources

The Nalgene 25 mm Syringe Filter uses 24–51% less source material (24% less for the 25 mm size, 45% less for the 32 mm size, and 51% less for the 33 mm size) than comparable filters on the market today (Table 1). By using less material, less petroleum feedstock is required, and less greenhouse gas is emitted.

In addition to using fewer resources, the redesigned Nalgene syringe filters also generate less waste in the lab. With a smaller footprint for the same membrane size (Figure 1), and the potential to use a 25 mm filter with performance equivalent (for most applications) to those of competitors' filters of diameters up to 33 mm, the volume of plastic waste in the lab can also be reduced, supporting sustainability efforts like zero waste.

Table 1. Comparison of weights of syringe filters with equivalent performance.

25 mm	Weight	32 mm	Weight	33 mm	Weight
Nalgene filter (728-2020)	2.28 g				
Pall filter (4612)	3.00 g	Pall filter (4652)	4.12 g	Millipore filter (SLGP033RS)	4.64 g
Difference	24%		45%		51%

Find out more at thermofisher.com/syningefilter

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