SARTORIUS

Product Datasheet



Safe-Cone Filters

The Ultimate Pipette Protectors

DOMINIQUE DUTSCHE

Product Information

Safe-Cone Filters are unique and replaceable filters, which act as a final barrier to help prevent any fluids and liquid vapours from reaching the internal components of the pipette. Safe-Cone Filters are available in two types Plus Filter and Standard Filter.

Applications

Plus Filter
For more demanding applications such as radioactive work, cellculture,bacterial and virological work and molecular biology. In case of liquid contact the Plus filter blocks the liquid flow. Note that the strong organic solvents and alcohols (including vapours) might penetrate through the filter.

Standard Filter
For general applications. Can be used in same type of work as the Plus filter, but needs to be changed more frequently.

Performance

Note
The Sartorius Safe-Cone Filters are not provided with a specific expiration date. Store the filters at room temperature, protected from moisture or chemical contamination.

We recommend using the products within 5 years of the manufacturing date. No detailed shelf life study has been performed to verify this lifetime, however Sartorius has not identified any risk of deterioration in performance if stored accordingly.

Note
Using the Safe-cone filters with standard tips has similar impact on performance than switching from standard to filtered tips. Best practice is to calibrate the pipette and tip with the filter in place.

Note
It is not recommended to use Safe-Cone Filters together with filter tips. Double-filtering may have an effect on the air flow and thus influence to the pipetting accuracy and precision.

The interval of changing the filter depends on the application and liquids used. However according to studies the filter is recommended to be changed daily (after 50 to 250 pipettings) and always in case of liquid touching the filter.

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Technical Data

Specifications

Materials	
Standard Filter	Polyethylene (PE)*
Plus Filter	Polyethylene (PE) and additive carboxymethylcellulose (CMC)

* Standard filter 721014 is made from bonded polyolefin fibers (PP, polypropylene).

Pipette Compatibility

Safe-Cone Filter Standard	Diameter [mm]	Picus 2	Tacta & Proline Plus
721005	6.73	100-5,000 500-10,000	500-5,000 1,000-10,000
721006	5.33	50-1,000 50-1,200	100-1,000
721007	3.15	10-300	20-200 30-300
721008	2.51	5-120	10-100
721014	1.83		2-20

Safe-Cone Filter Plus	Diameter [mm]	Picus 2	Tacta & Proline Plus
721015	6.73	100-5,000 500-10,000	500-5,000 1,000-10,000
721016	5.33	50-1,000 50-1,200	100-1,000
721017	3.15	10-300	20-200 30-300
721018	2.51	5-120	10-100

Ordering Information

Order Code	Pore Size [µm]	Diameter [mm]	Length [mm]	Pack Size [Pieces]
Safe-Cone Filter Standard				
721005	100 - 170	6.73	7.62	50
721006	100 - 170	5.33	5.00	50
721007	18 – 40	3.15	5.50	50
721008	18 – 40	2.51	6.35	50
721014	*	1.83	4.50	50

* The filter 721014 is made from bonded polyolefin fibers (PP, polypropylene). In the fiber technology they talk about fiber density not pore size and unfortunately, we do not have any kind of correlation factor to pore sizes. However, this filter is a bit more protective than PE filters but it is not a Plus filter.

Safe-Cone Filter Plus				
721015	18 – 40	6.73	7.62	50
721016	18 – 40	5.33	5.00	50
721017	18 – 40	3.15	5.50	50
721018	18 – 40	2.51	6.35	50

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