PRODUCT DATASHEET

PES Capsule Filters

PES capsules, 0.1 to 0.8 µm, lab to pilot scale





DETAIL – THREE CAPSULE SIZES

OVERVIEW

The Tech Inc. PES Capsule Filters combine a pleated hydrophilic PES cartridge and a polypropylene housing in one sealed, ready-to-use unit for sterile filtration of cell culture media, buffers and biological solutions from 1 to several hundred litres. There is no housing to clean or validate, and each size uses the same media from bench to pilot.

MODELS AND CONFIGURATIONS

- **0.2 µm sterilising grade** – media and buffers.
- **0.1 µm** – mycoplasma reduction.
- **Dual-layer 0.45/0.2 µm** – higher throughput.
- **Gamma-irradiated** – ready-to-use sterile capsules.

TYPICAL DESIGN DATA

Model series	TI-CF-PES-S, -M and -L
Media	Pleated hydrophilic PES
Pore sizes	0.1, 0.2, 0.45 and 0.8 µm
Filter area	About 0.02 m² (S), 0.1 m² (M) and 0.6 m² (L)
Housing	Polypropylene, with vent and drain
Connections	Hose barb, 1/4 inch NPT, 1.5 inch sanitary
Maximum pressure	About 4 bar at 25 °C
Sterilisation	Gamma-irradiated or autoclavable, by version

APPLICATIONS

Sterile filtration of media and buffers, bioprocess and fermentation feeds, pharmaceutical solutions and beverages.

KEY ADVANTAGES

- **High throughput** – fewer filter changes
- **Low binding** – protein recovery
- **Integrity testable** – bubble point and diffusion tests

How to cite: PES Capsule Filters (model TI-CF; Tech Inc., Vaughan, Ontario, Canada). www.techincresearch.com/product-page/pes-capsule-filters

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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