



Porex Life Science Products, Media & Filters

Think all filter media
is the same?

Think again.

Chromatography | Purification & Extraction | Liquid Handling | Affinity Filters & Supports

For maximum performance, purity, reliability and accuracy, turn to life science products from Porex Corporation, design optimized for use in demanding liquid handling, chromatography, SPE, separation, affinity and DNA/RNA purification/extraction applications.

Available in a wide variety of material configurations, Porex advanced porous materials, micro porous PTFE, porous polymeric fiber, porous glass fiber membrane, porous composites and functionalized and bio-activated porous media, combine unique Porex manufacturing processes with proprietary and patented technologies that help deliver technologically advanced solutions for today's challenging life science applications.

POREX® Filters and Materials for the life sciences are third party tested by analytical, clinical, and life cycle microbiology testing laboratories. The Pure Porex™ certification substantiates POREX Filters and Materials for filter purity, no material additives or contaminants, no heavy metal interference or inorganic element interference, clinical laboratory methodology compatibility, and 99.9% bacterial aerosol filtration efficiency. Porex Filters and Materials were further tested by independent laboratories and determined to be non-cytotoxic and non-hemolytic. ¹

¹ Data on file and available on request



Chromatography

Protein Precipitation Media

Dissolution Filters

SPE Frits & Automation Filters

POREX® Chromatography Products and Media, include SPE frits and automation filters, dissolution filters and protein precipitation media. Manufactured from polyethylene (PE), polypropylene (PP) and polytetrafluoroethylene (PTFE), Porex Chromatography Products and Media provide superior purity, resiliency and tolerance process control.

Dissolution Filters

POREX® Dissolution filters are used in conjunction with pharmaceutical tablet and capsule products to help filter contaminants during the dissolution testing process. Heavy metal free POREX Dissolution Filters are available in cannula, circular/disk and filter frit designs in a wide variety of porosities.

- Cannula Filters, used on the end of a sampling cannula, feature a large surface area and optimized flow rate. Ideal for applications with a high particulate presence. Available in 1-70 micron sizes.
- Circular/disk filters are used with low-dimension sample probes in applications where it is important to keep the filtration process outside of the vessel. Available in 10 and 45 micron sizes.
- Filter tips can be used on sample cannulas with 1/6" diameter in 2–45 micron sizes. Used with low quantities of particulates and flow at the filter bottom.

Protein Precipitation Media

POREX® Protein Precipitation porous media solutions remove precipitated protein during mixing and incubation without plugging or breakthrough. Designed to retain acetonitrile, methanol and other organic solvents.

Available in sheets (PE) or rolls (PE and PTFE). POREX PTFE or PE Protein Precipitation Membranes help remove contaminating lipids, salts and proteins from samples prior to LC-MS/MS and increases efficiency through elimination of time-consuming centrifugation and transfer steps. Ideal for 96 well plate applications.

SPE Frits and Automation Filters

Porex offers a variety of PE, PP and porous PTFE filters — commonly known as frits, for use in commercially available SPE columns or 96 well SPE plates to facilitate column concentration to a vacuum manifold, needle or collection vessel.

Porex Media holds the column packing in place and helps facilitate the sorbent packing material in each SPE column as it separates and retains sample analytes. SPE Automation media and filters are specially designed to improve form, fit and function in various automated applications especially multi well formats.

Available in sheets, disks and custom configurations including enhanced media with surface modifications.

THE BEST RESULTS COME FROM THE BEST MATERIALS.

Purification & Extraction



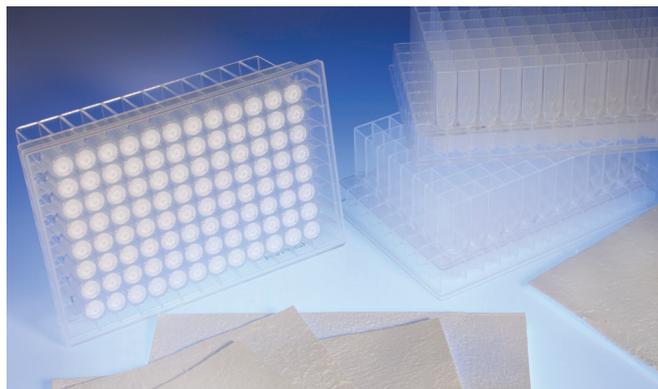
Gel Filtration Media Support



Spin Column Media

POREX® Purification and Extraction materials in Porex polyethylene (PE), polytetrafluoroethylene (PTFE) and porous glass fiber membrane optimize product performance and filter potential contaminants for a broad range of purification and extraction applications.

- Gel Filtration Media Support
- Spin Column Media
- Deep Well Plate Filter Media
- Glass Fiber Media



Deep Well Plate Filter Media

Gel Filtration Media Support

POREX® polyethylene (PE), porous glass fiber membrane and other functionalized materials are used in high recovery desalting, buffer exchange and low molecular weight compound removal applications to hold the medium in place and protect it from running dry under buffer flow.

Spin Column Media

POREX® Spin Column Media in polyethylene (PE), porous glass fiber membranes and other functionalized materials, isolate high quality nucleic acids for downstream applications.

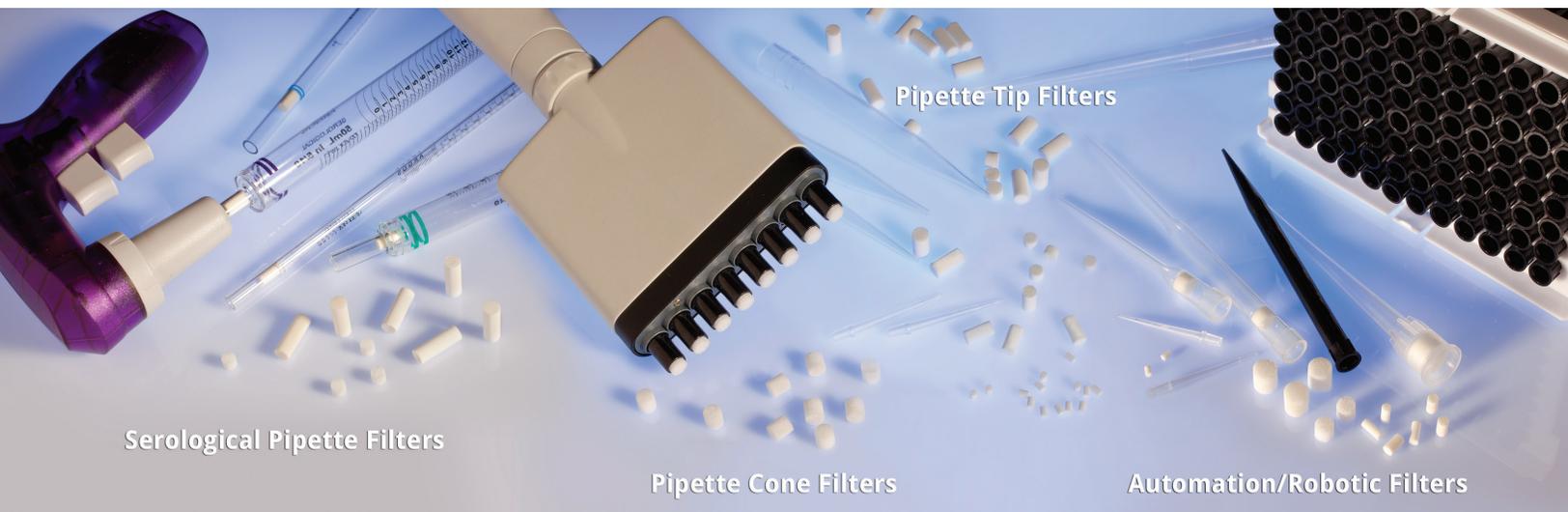
Deep Well Plate Filter Media

POREX® PE, porous glass fiber membranes and composites allow high recovery of filtrates and particulate retentates to help avoid cross-talk between adjacent wells in applications ranging from DNA/RNA purification to cell harvesting and plasmid isolation.

Liquid Handling

Porex Pipette Tip, Automation, Serological and Cone Filters are the porous design solutions chosen by a broad spectrum of pipette and pipette tip manufacturers to help eliminate aerosol by-pass, sample carryover and the passage of aqueous based liquid from sample to equipment and instrumentation.

Certified Pure Porex liquid handling filters are design and fit optimized to provide purity, precision, and performance for today's demanding life science applications.



Serological Pipette Filters

Pipette Cone Filters

Pipette Tip Filters

Automation/Robotic Filters

Serological Pipette Filters

POREX® Serological Pipette Filters, available in a wide variety of materials, help prevent trace carryover contamination caused by aerosols generated during sample aspiration. Porex Liquid Safe media provides a new dimension in serological pipette safety and use with a liquid barrier filter in addition to an aerosol barrier.

Porex Liquid Safe filters stop fast draw sample uptake from exiting the pipette and further protect the pipette aid from sample contamination. Additionally, Porex Liquid Safe serological filters reduce possible accidental exposure and the need for expensive, internal syringe filters.

Pipette Cone Filters

POREX® Pipette Cone Filters are used at the pipetter shaft base to help prevent fluid and liquid vapor contamination of samples and the pipetter's internal mechanisms and components.

Pipette Tip Filters

POREX® Pipette Tip Filters are specifically designed to help prevent liquid bypass, cross contamination and airborne contaminants from being drawn into the tips, thus protecting the pipette body from contaminants.

Automation/Robotic Filters

POREX® Automation/Robotic Filters meet the critical tolerance levels of today's robotic pipette tips and automated liquid handling products.

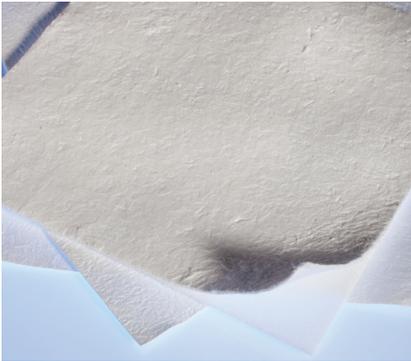
Maximum consistency in air flow, filter purity and aerosol containment help instrument and consumable manufacturers deliver optimal dispensing and pipetting performance across a wide range of liquid volumes.

Glass Fiber Media

POREX® BioDesign™ Glass Fiber membranes include borosilicate microfiber glass filters, quartz microfiber glass filters, microfiber and porous plastic composites, and microfiber glass and polymer fiber composites.

All POREX BioDesign membranes integrate porous polymer materials (plastics and fiber) with microfiber glass, synchronizing the excellent strength of polymers with a variety of fiberglass functionalities as well as eliminating acrylic binders that could pose risk of potential contamination.

Porex porous glass fiber media are specifically developed to meet the rigorous purity standards required in the lab and clinical environments. Used in a broad range of applications including spin columns, assay plates and purification kits.



Glass Fiber Media

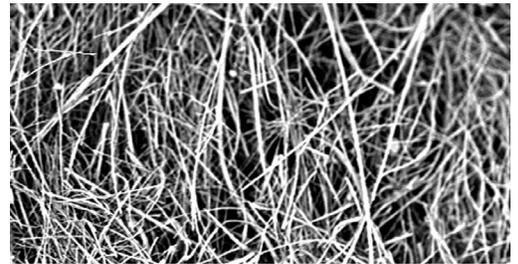


Glass Fiber Media



Borosilicate Glass

- Binder free
- High loading capacity
- High biomolecular binding
- Fast flow rates
- Grades A, B, D and F
- Custom Grades



Quartz Glass

- Binder free
- High loading capacity
- High biomolecular binding
- Fast flow rates
- Very low trace metal content
- Resistant to chemical attack by acidic gases
- Withstands higher temperatures



Further Composites

- Excellent strength
- Binder free
- High loading capacity
- High biomolecular binding

100% Binder Free Borosilicate Glass				
Grade	A	B	D	F
Catalog No.	42023	42024	42025	42026
Nominal Particle Retention Rating* (µm)	1.6	1.0	2.7	0.7
Size (inches)	11.5" x 11.5"	11.5" x 11.5"	11.5" x 11.5"	11.5" x 11.5"
Size (mm)	292 x 292	292 x 292	292 x 292	292 x 292
Basis Weight (g/m ²)	41	86	124	65
Thickness (µm)	250	550	640	450
Liquid Flow Rate** (sec/100ml/10cm ²)	62	210	47	315

* Nominal Particle Retention Ratings are based on 98% efficiency.
 ** Modified Herzberg Method



Affinity Filters & Supports

POREX® Affinity Filters and Supports are an innovative range of advanced porous materials that enhance functionality through surface modification or sorbent addition. Designed to capture, clean-up, desalt and purify peptides, proteins and oligonucleotides.



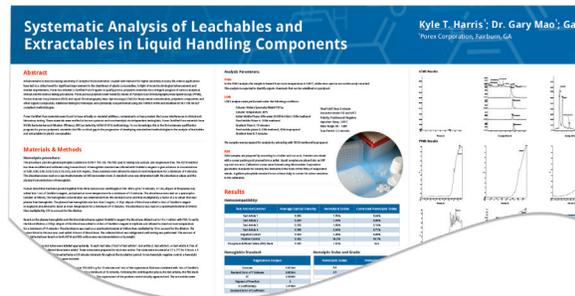
POREX Affinity Filters and Supports help optimize flow and retention variables and can be used in pipette tips, 96 well plates, spin down and gravity flow centrifuge columns.

Available in discs, sheets or with embedded CPG, Carbon, C8 or C18 in a homogeneous matrix versus being packed as individual particles.



The Pure Porex Certification substantiates Porex® Filters and Materials for filter purity, no material additives or contaminants, no heavy metal or inorganic element interference, clinical laboratory methodology compatibility and 99.9% bacterial aerosol filtration efficiency.

View our Leachables and Extractables Study!



Scan the QR code to download a copy of our Poster!



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