

FILTRIQ™

Innovative Nano Fiber Membrane



Highly Porous Membrane - Hydrophobic - High Surface Area - Chemically Inert

Zeus Filtriq™ is an innovative membrane for challenging applications. The product is a nonwoven membrane processed from PTFE and composed of individual nano fibers that create a three-dimensional structure. It is a concept material which can be utilized in pharmaceutical filtration, aggressive liquid chemical filtration, air/gas filtration, fuel cell membranes and other applications.

Filtriq™ can be produced as a laminated roll and is good as a stand-alone material or it can be combined with other materials through lamination. Its unique structure allows for maximum porosity and high flow rates. The nano fiber product is thin and resistant to extreme temperatures up to 500°F (260°C) in the presence of harsh chemicals, allowing it to work as a fuel cell membrane or battery separator in demanding environments.

Key Properties:

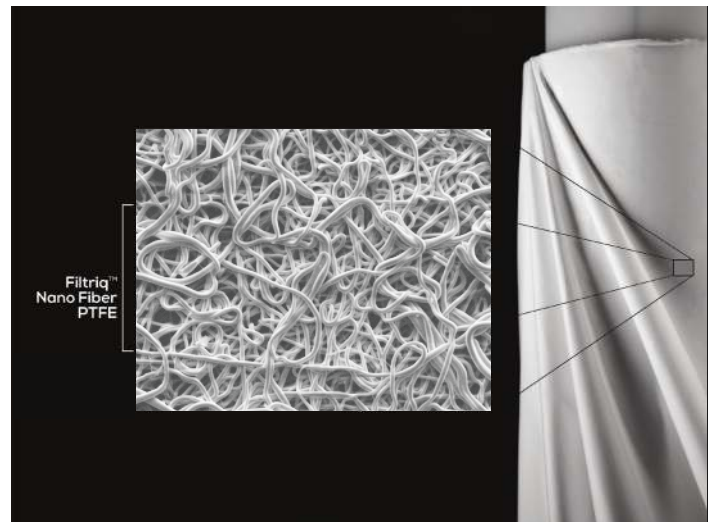
- High Temperature Nano Fiber Membrane 500°F (260°C)
- High Airflow Rates
- Chemically Inert to Aggressive Fluids
- Flexible Material
- Laminations Available

Potential Applications:

- High Purity Pharmaceutical Filtration
- Air Filtration
- Liquid Filtration for Aggressive Chemicals
- Gas Filtration
- Battery Separator
- Fuel Cell Membrane

Other Zeus Filter Products:

- Aeos® ePTFE Membrane & Porous Tubing
- Nano Fiber Membranes Processed with other Polymers
- Drawn Fiber for Woven Mesh



Filtriq™ Nano Fiber Membrane

Zeus is the world's leading polymer extrusion manufacturer and material science innovator. Almost 50 years of experience in medical, aerospace, energy exploration, automotive, fiber optics and additional industries allows us to leap past *can't* and move directly into *how*.

Headquartered in Orangeburg, South Carolina, Zeus employs approximately 1,200 people worldwide and operates multiple facilities in North America and internationally.

Contact our technical team today to discuss how we can help.

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KEEP TECHNOLOGY FLOWING

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Product Development Timeline

No Samples Available		Prototype Samples Available With Approved Business Case		Samples Available		Product Available
TECHNOLOGY SCOUT	IDEATION	CONCEPTUAL	FEASIBILITY	DEVELOPMENT	RAMP-UP	PRODUCT LAUNCH
Corporate assessment for feasibility and vetting	Marketing research, engineering & sales market assessment	<ul style="list-style-type: none"> • Product requirements firmed up • Business case for forward progression made • Manufacturing plan started 	<ul style="list-style-type: none"> • Merit of product design finalized • Manufacturing plan firmed up 	<ul style="list-style-type: none"> • Validated robust product • Data widely available 	<ul style="list-style-type: none"> • Market validated performance requirements • Manufacturing repeatability and reproducibility 	<ul style="list-style-type: none"> • Product is launched and widely available

*Blue denotes where Zeus is today with Filtriq.

Please contact us for more information.



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