

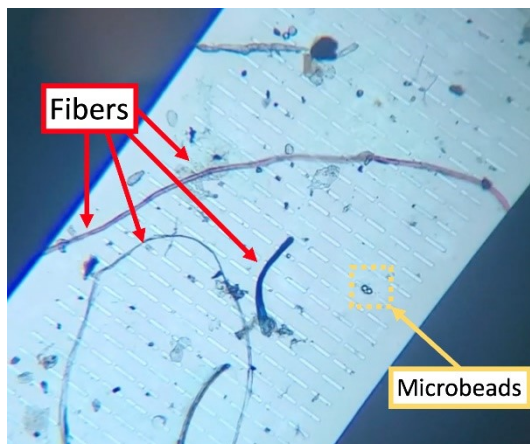
# Capture and Analyze Microplastics on One Filter

nanomembranes for microplastics separation and analysis

## Silicon Nitride Membrane Filter Discs

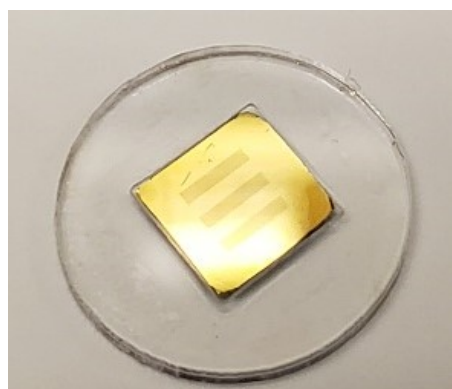
SiMPore Microslit Silicon Nitride (SiN) membrane filter discs are uniquely suited for a wide range of particle separation challenges, particularly microplastics analysis.

Our unique SiN membrane system enables efficient sized-based separation and analysis directly on the filter membrane, simplifying analysis workflow and decreasing sample handling complexity. Available metal coatings enable low background for fluorescence, Raman, IR, and electron microscopy.

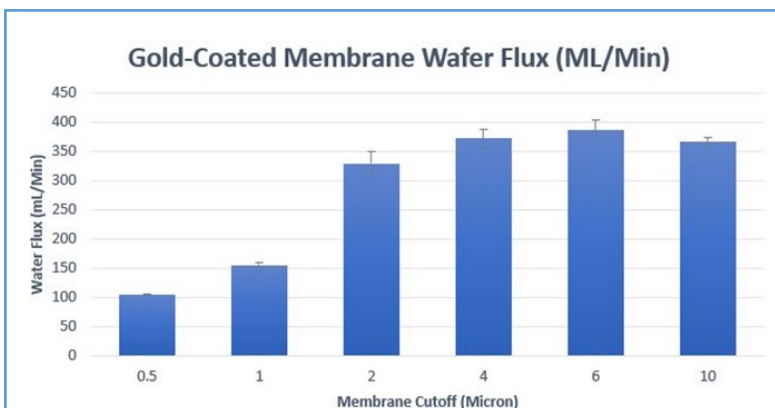


## Key Product Features

- Capture and analyze particles of interest on the same filter, saving hands-on labor
- Exceptionally thin (400 nm) thick filters offer high flow rates and fast filtration, reducing sample preparation time.
- Convenient 13 mm and 25 mm filter formats compatible with vacuum filtration and stirred cell apparatus.
- MicroSlit-shaped pores offer sharp cut-offs for capturing particles of interest.
- Highly inert SiN membrane material is broadly compatible with acids, bases, and solvents.
- Small membrane surface area (6.3 mm<sup>2</sup>) concentrates captured particles for ease of identification.
- Available with optional gold coating for compatibility with fluorescent microscopy and Raman and infrared spectroscopy.



**13mm Filter Disc Filter**



**Clear Water Flow Rates (via vacuum filtration)**

## Part Number Configurator

**Format:** [Product Series] [Disc Diameter – mm] – [Filter Cutoff -  $\mu\text{m}$ ] – [Surface Coating Type]

**Example:** [FD13-6.0-Au]; 13mm diameter filter, 6  $\mu\text{m}$  cutoff with 120nm Gold Coating

Product Series	Disc Diameter (mm)	Nominal Cutoff ( $\mu\text{m}$ )	Surface coating
FD	13 25 37 47	0.35	NC (Non-coated) Au (120nm Gold) Al (120nm Aluminum) LB (Low-Binding)
		0.5	
		1.0	
		2.0	
		4.0	
		6.0	
		8.0	
10.0			

## Product Catalog

Product Number	Description	QTY	Notes
FD13-	SiN MicroSlit 13mm filter discs	10 (Pack) 50 (Case)	Includes silicone gaskets
FD25-	SiN MicroSlit 25mm filter discs	10 (Pack) 50 (Case)	Includes silicone gaskets
GASKETS-13	Silicone gasket sets for 13mm filter discs	10 (Pack)	
GASKETS-25	Silicone gasket sets for 25 mm filter discs	10 (Pack)	
FD13-SAMPLER	Sample pack containing 4 each of four different 13 mm disc filters	16 (Pack)	User-Selected membrane cutoffs and coatings
FD25-SAMPLER	Sample pack containing 4 each of four different 25 mm disc filters	16 (Pack)	User-Selected membrane cutoffs and coatings

## Ordering and Enquiries

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### Disclaimer

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