

Optical Filters for Point of Care Diagnostics

Product Data Sheet



Volumes of 100,000 per part type, per year



Part size down to 1mm² on 0.5mm glass



Optimized for LED light sources



Designs matched to dyes used in MDx POC testing



Learn more at www.semrock.com

Investing for the Future

Continued investment and commitment to develop advanced point of care diagnostic test solutions is critical to the global mission of making the world a healthier and safer place. At Semrock, we understand the need of healthcare practitioners to provide actionable diagnostic results while maintaining the highest level of test accuracy, speed and efficiency when and where it is needed the most, near the patient.

At Semrock, we are committed to being the partner of choice for our medical customers and have invested in a new state-of-the-art high-volume optical filter production factory. This new facility was purposefully configured and equipped with the most advanced automated deposition, process control and metrology technology allowing Semrock to meet the growing demand for high-volume optical filter production for point of care (POC) medical devices.



We've Got You Covered

Our optical filter products are ideal for diagnostic test applications which use **fluorescence**, **Raman**, **transmission**, and **absorbance** optical detection methods.

- › Hemoglobin, HbA1c, and anticoagulation testing
- › Influenza A + B, Strep (Group B), CD4 (HIV), C. difficile
- › Cardiac testing e.g., quantitative BNP and Troponin
- › Lipid, albumin and other panel tests
- › Drug and toxicity screening
- › Allergy and food testing e.g., gluten, peanut, Salmonella, food-borne bacteria
- › Vector-borne diseases e.g., Zika, West Nile, Lyme, Q fever

10
YEAR
WARRANTY

ISO
9001:2008
CERTIFIED

Why Semrock?

Head-to-head, Semrock's all-dielectric, hard-coated miniaturized optical filters lead to improved device SNR* performance, meaning more, meaning more accurate quantitative results you can rely on.



* Signal-to-noise (SNR) results modeled using SearchLight™. Similar all-dielectric, hard-coated fluorescence filter sets optimized for green fluorescent protein (GFP) were considered under the same excitation and detection conditions.

“For both custom and off-the-shelf high-performance optical filters, Semrock provides the most consistent, timely, and thoroughly-supported solutions.”

Christian Misener, Ph.D.
R&D Fellow | IDEXX Laboratories

Product Capabilities

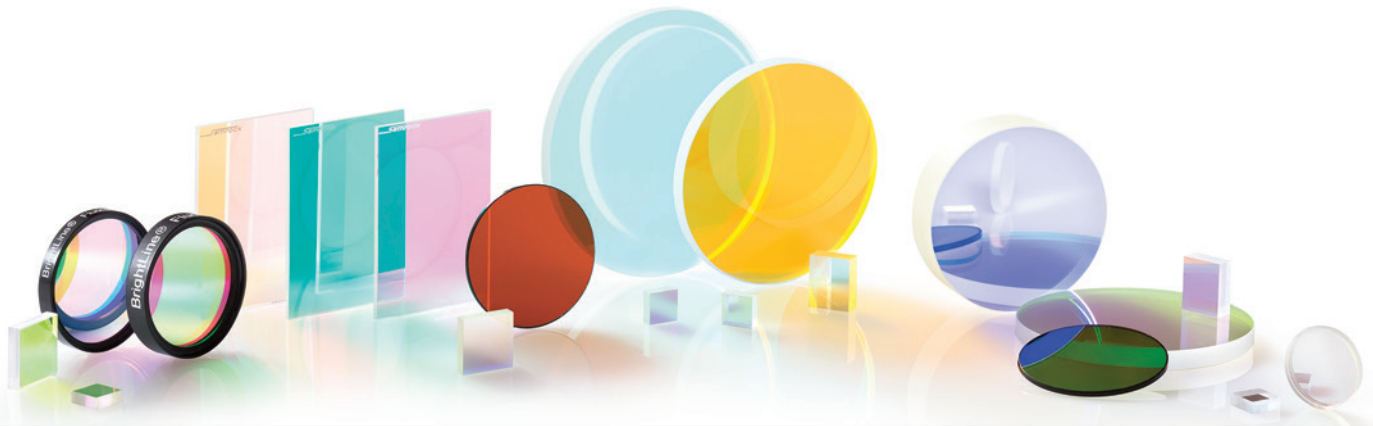
Semrock's new production facility supports the manufacture of optical filters:

- › Covering wavelengths from 330 nm – 1700 nm
- › Matched to common fluorophores - FAM, JOE, HEX, VIC, TET, Cy3, ROX, TAMRA, Cy5, fluorescent proteins, and many more
- › In volumes from 10's to 100s of thousands per year, per filter type
- › As small as 1 mm x 1 mm on 0.5 mm thick glass
- › Seamless production processes that support prototype to production volume levels
- › Customized for use with LED light sources
- › Having a 10-year warranty
- › ISO 9001:2008 certified Quality Management System

The Right Filter. Right Now.

Leaders in the design and manufacture of the highest-performance and long-lasting optical coatings, Semrock offers a wide range of standard and custom product solutions for point of care medical devices.

- › Single band
- › Dichroic beamsplitters
- › Laser-line
- › Tunable bandpass/edge
- › LED optimized
- › Multiband
- › Edge SWP/LWP
- › Notch
- › Mirrors
- › Filter Sets



For ordering and technical support,
please visit www.semrock.com