

Fluorescence Filters OEM

For fluorescence-optical investigations, special filters are required which spectrally separate the absorption range from the emission range of the respective fluorescent dye.

An excitation filter therefore only allows the wavelengths used to excite the dye to pass and blocks the emission wavelength range as completely as possible. The reverse is achieved by the observation filter. In both cases, spectral separation is achieved by very steep edges and exceptionally high blocking.

Such filters are built into automated analytical-diagnostic instruments.

Since these instruments are used under different environmental conditions, the filters must be optically and mechanically very stable.

Excitation and observation filters must be free of autofluorescence, which would strongly interfere with the investigations.

Furthermore, our filters have a high transmission, spectrally steep edges and a high optical density outside the passband (blocking).

We are specialized in manufacturing fluorescence filters according to customer specifications for OEM applications.



Fluorescence Filters

Properties

- Highest transmission
- Excellent blocking
- No autofluorescence
- Very steep edges
- High signal-to-noise ratio:
 $S/N > 100'000:1$
- Very hard, abrasion-free, environmentally stable layers
- Low thermal displacement:
 $< 0.0015 \text{ nm/K}$
- Excellent long-term stability

Applications

- Analytical-diagnostic devices
- Fluorescence Microscopy
- Raman spectroscopy

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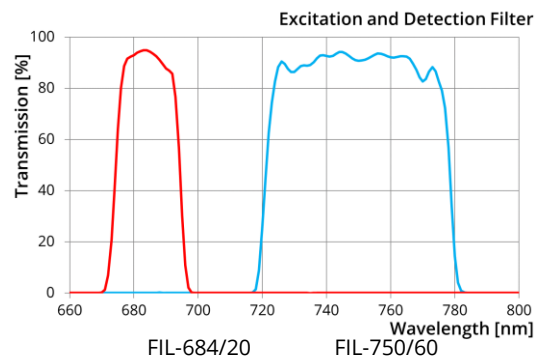
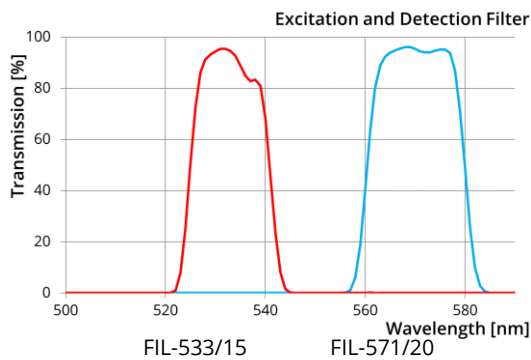
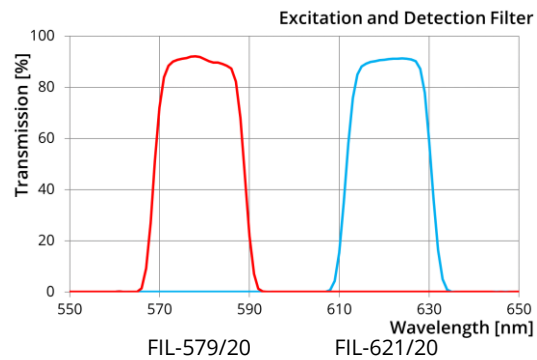
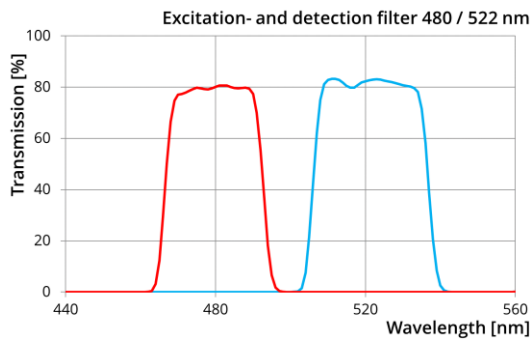
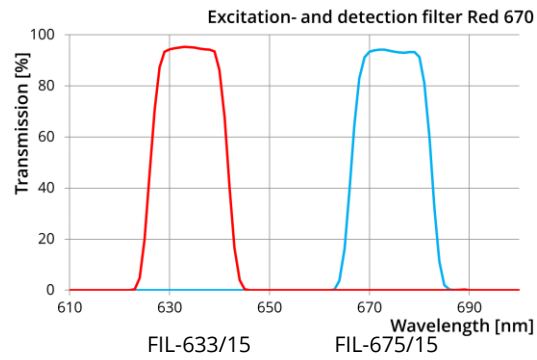
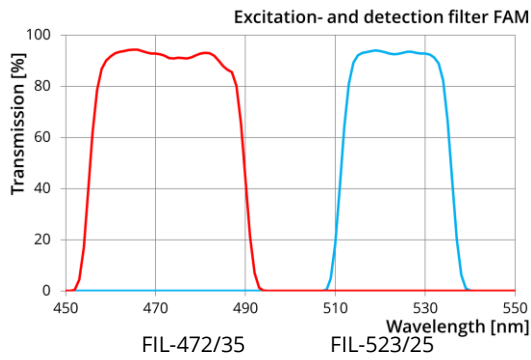
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Typical curves:



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