

IR filters for gas analysis

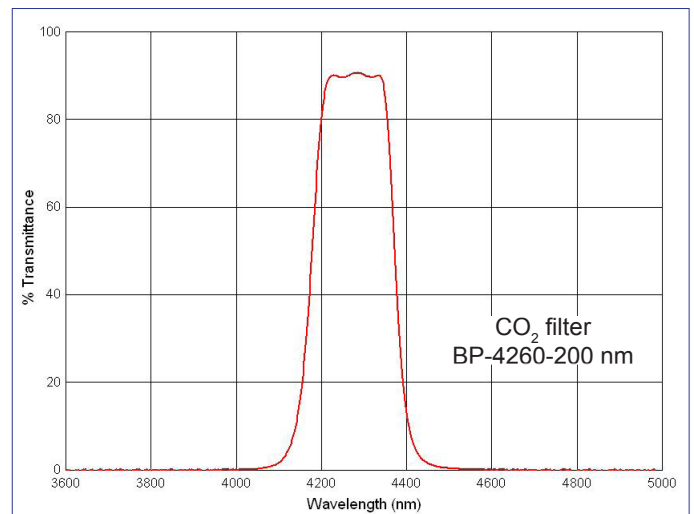
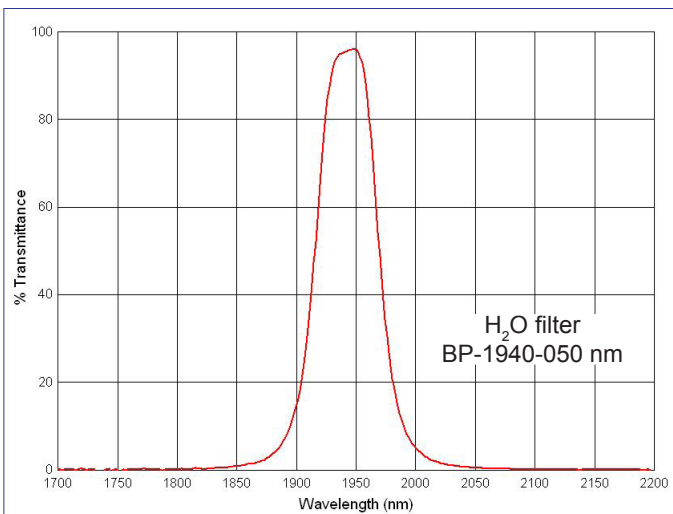


Gas analysis applications

Spectrogon manufactures infrared filters for measuring many different gases, for example; CH₄, C₂H₆O, CO, CO₂, HCl, NO, NO₂, O₂, SO₂ and anaesthetic gases. These are successfully used in automotive, combustion, environmental, medical and power distribution industry.

Infrared filter features

The high transmission, high rejection outside the passband, fine surface quality and the coating uniformity gives our filters excellent performance.



Dimensions

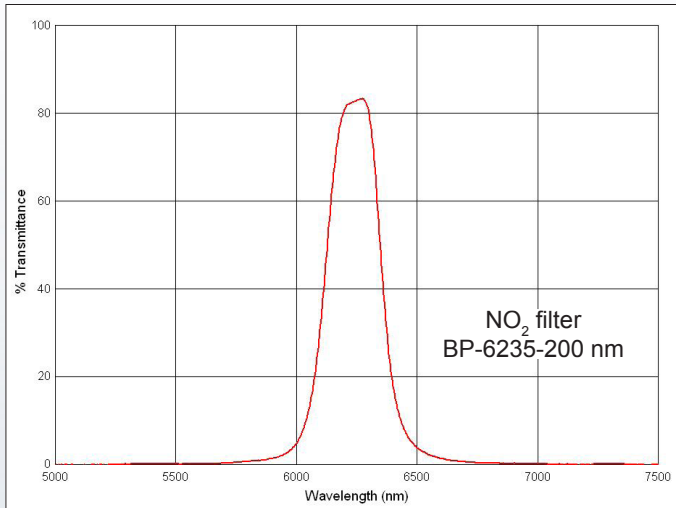
Spectrogon manufactures filters and windows from Ø6.0 to Ø200.0 mm. The wafers can be diced to custom-made sizes, down to as small as 1.0x1.0 mm. Thickness from 0.3 to 3.0 mm.

Substrate materials

Typical substrate materials are: Germanium, Silicon, FZ Silicon, Sapphire, ZnS and ZnSe

Production capabilities

Spectrogon has coating chambers both for small prototype runs and for high volume production.



Thin film design

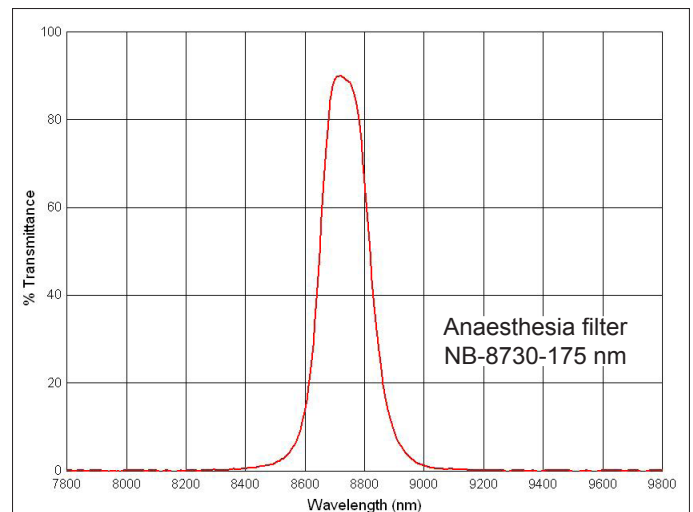
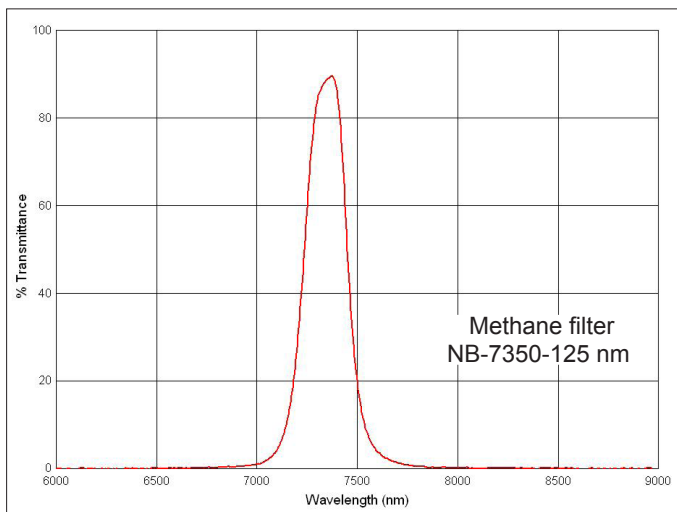
For custom designs we have several thin film designers ready to review your specification. We help you to determine a specification that is both technically feasible and economical to manufacture.

Off-the-shelf deliveries

For prototype work; check our website for available stock filters, click on the filter description and you will get spectral characteristics for each filter batch. We have approximately 1000 different filter types listed.

Coating process

Spectrogon's infrared filters and windows are manufactured with a hard coating technique which gives films with superior environmental stability.



The coatings meet MIL-F-48616: temperature, humidity, mild abrasion and adherence. Manufacturing processes conforms to environmental regulations; RoHS (Restriction of Hazardous Substances) EU 2002/95/EC and REACH (Registration, Authorisation and Restriction of Chemicals) EC 1907/2006).

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