# Gas filter cell GFC-12



Hermetic gas filter cell with soldered CaF2 windows

Hermetic gas filter cells are gas-filled cylinders and are used to block out specific frequency bands of interfering gases in optical gas analysis. Additionally, the cells can be filled with reference gases of certain gas concentrations to be used for calibration of gas analysis systems.

**Product Name:** GFC-12
**Filter/Window:** 2 x soldered CaF2
**Wavelength range:** 0.2 to 11 µm
**Filling gas:** None - Additional filling gas on request
**Length:** 12 mm
**Transmissivity:** > 80% up to 8 µm
**Operating temperature range:** - 25 ... + 85 °C
**Product code:** 155781

# Product details

## SOLIDSEAL® hermetic housing technology

Infrasolid's hermetic housing technology enables the soldering of different IR window materials, like CaF2, BaF2 and sapphire. It is used in our high-performance infrared radiation sources to ensure best long-term stability and highest lifetime. The hermetic packages do not show any permeation of water vapor or gases in contrast to glued windows. It opens up new fields of application, especially in harsh industrial environments such as explosion-endangered applications, corrosive gas mixtures, high temperature, high partial gas pressure, and high humidity.

## Gas filter Cell

Hermetic gas filter cells are gas-filled cylinders and are used to block out specific frequency bands of interfering gases in optical gas analysis. Additionally, the cells can be filled with reference gases of certain gas concentrations to be used for calibration of gas analysis systems, e.g. for adjusting laser wavelengths to specific gas absorption bands. For a very high long-term stability our gas filter cells are hermetically sealed with soldered CaF2 windows. They show high transmissivity from UV up to far infrared wavelengths for a broad range of applications.

## Key features Gas Filter Cells

- Elimination of cross-sensitivities to interfering gases in optical gas analysis
- Adjustment of measuring instruments and gas analyzers
- Soldered, high-quality $CaF_2$ windows
- Filling tube enables self-filling with desired gas and sealing
- Broad range of applications from UV to far infrared spectral range

## The online shop

| Quantity (pieces) | Price (per piece) |
|---|---|
| 1-4 | CHF 263.20 |
| 5-9 | CHF 198.80 |
| 10-24 | CHF 175.84 |

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