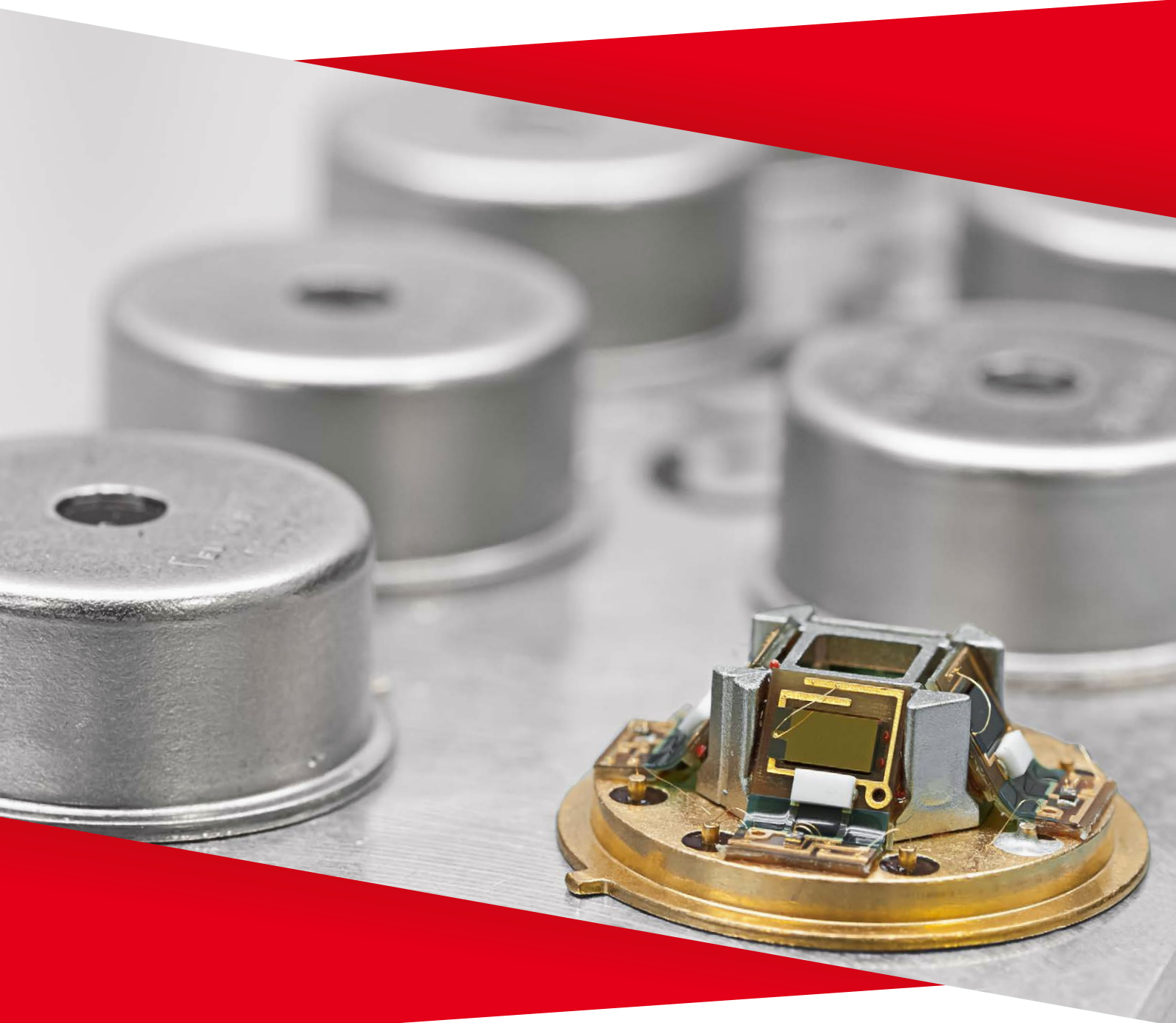


# Typical Filter Plots



# The Products

## 2.4.9 Transmission Spectrums of the Standard NBP Filters

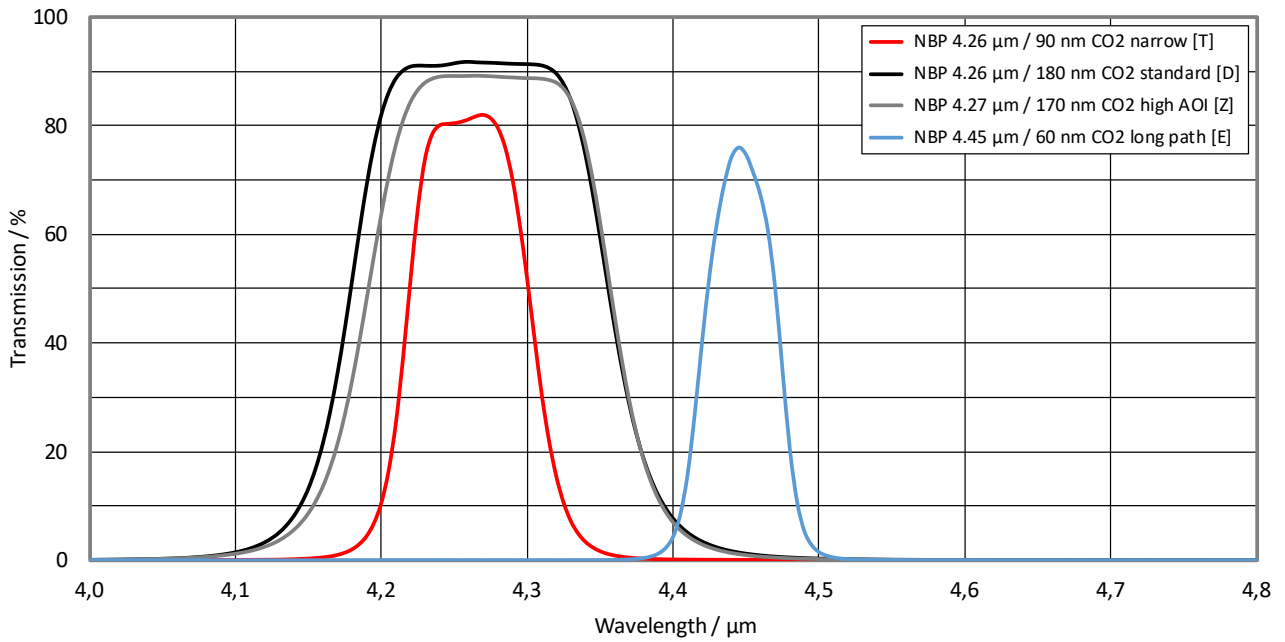


Diagram 5: NBP Filter for measuring carbon dioxide

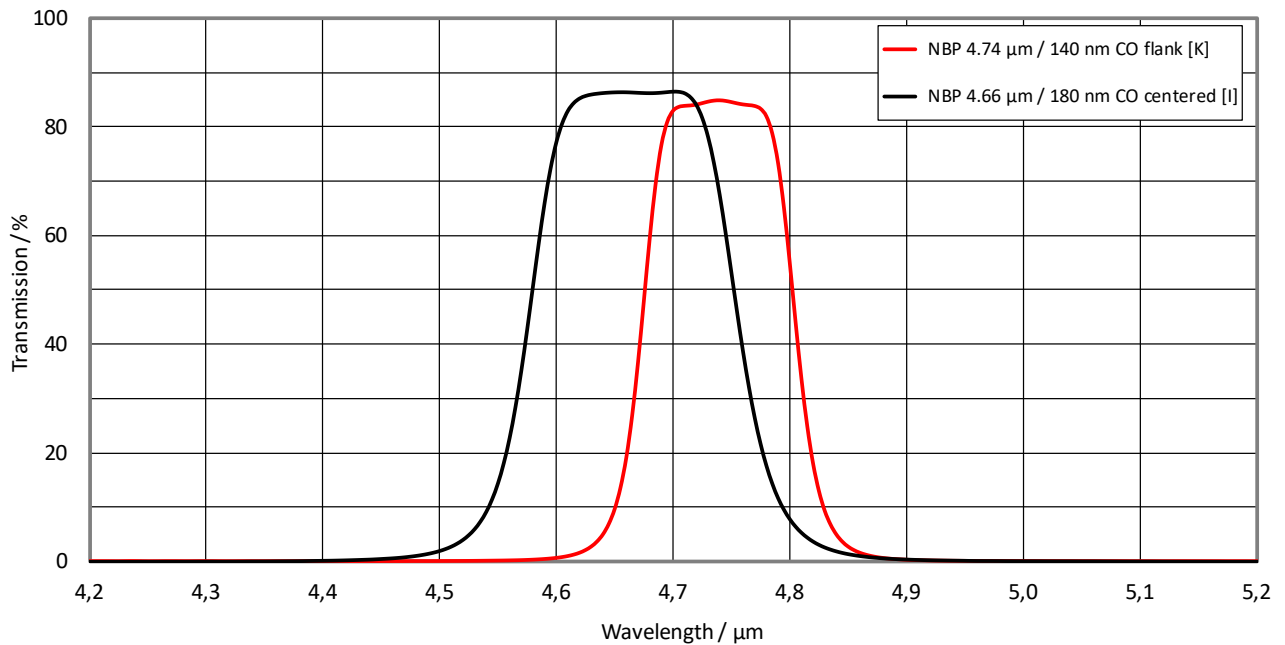


Diagram 6: NBP filter for measuring carbon monoxide

## The Products

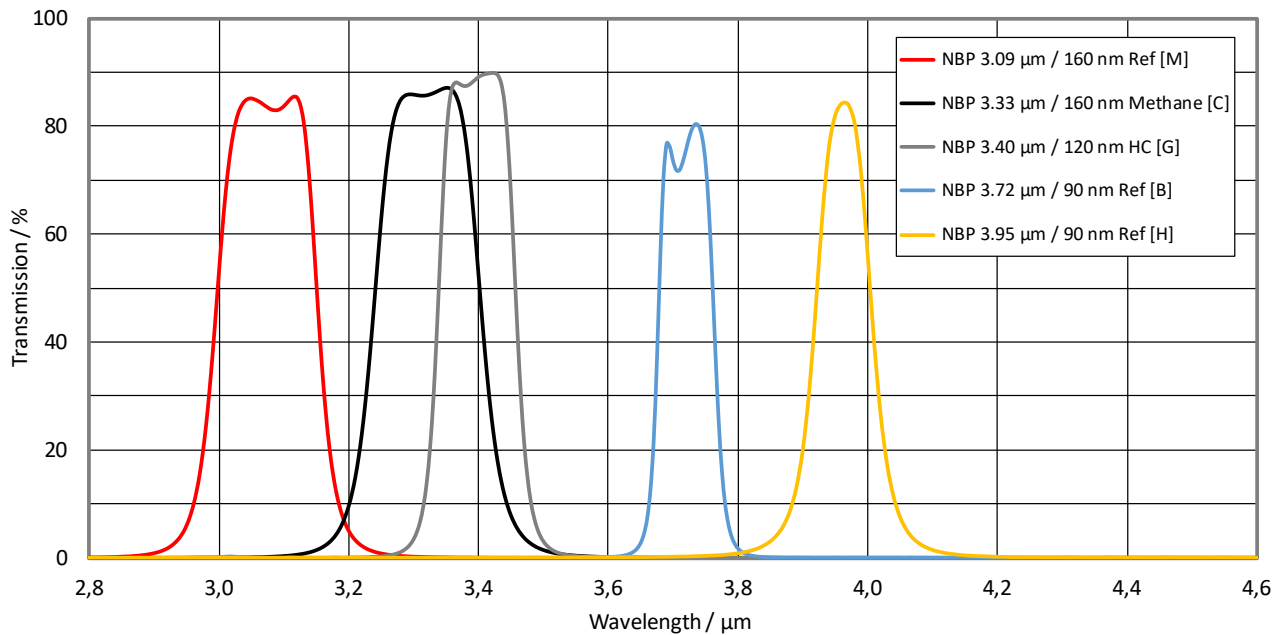


Diagram 7: NBP filter for measuring hydrocarbons and reference filters

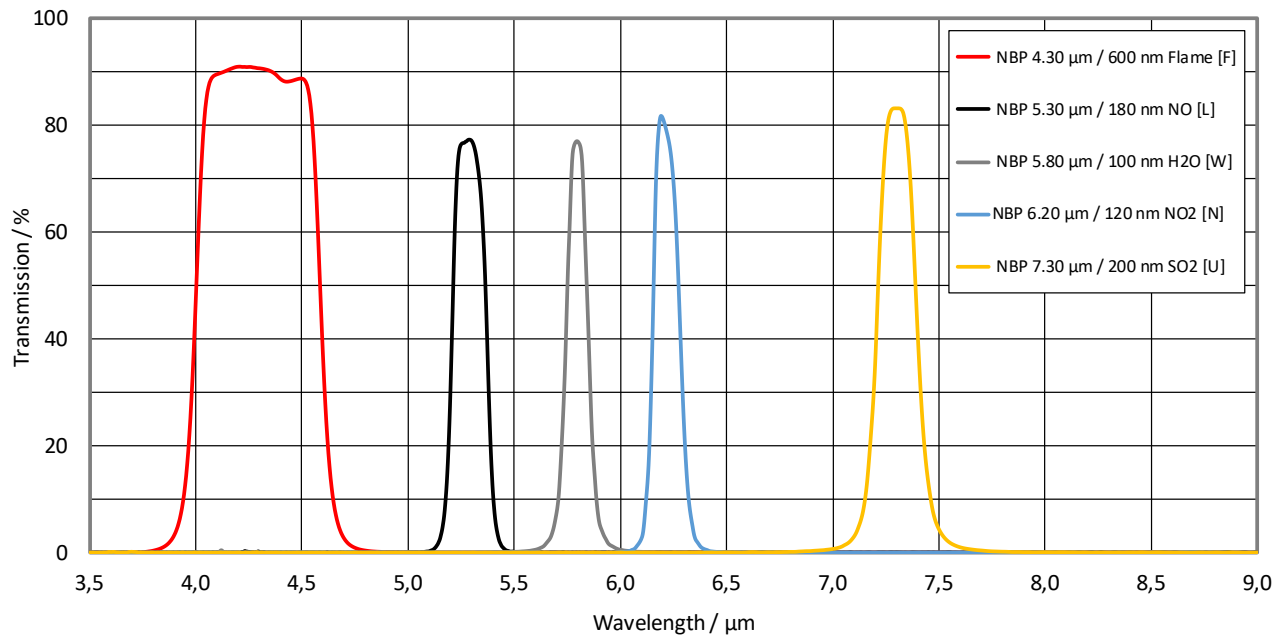


Diagram 8: NBP filter for flame detection as well as measuring nitrogen monoxide and sulphur dioxide

# The Products

## 2.4.10 Transmission Spectrums of the Standard Windows

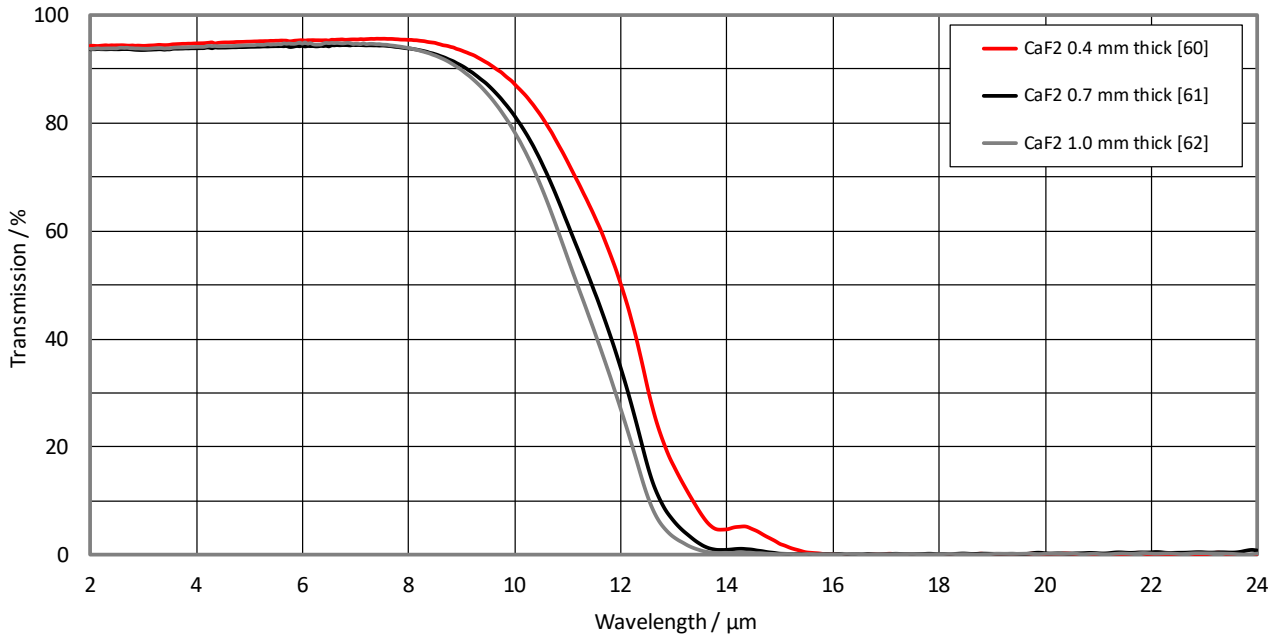


Diagram 9: Calcium fluoride

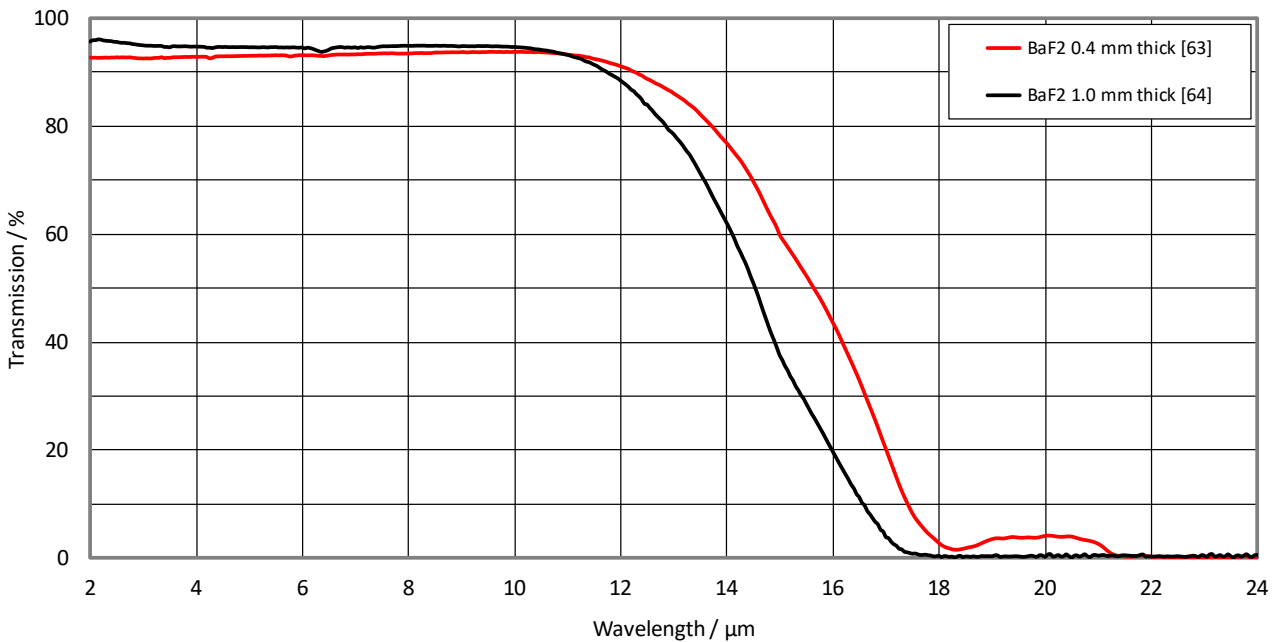


Diagram 10: Barium fluoride

## The Products

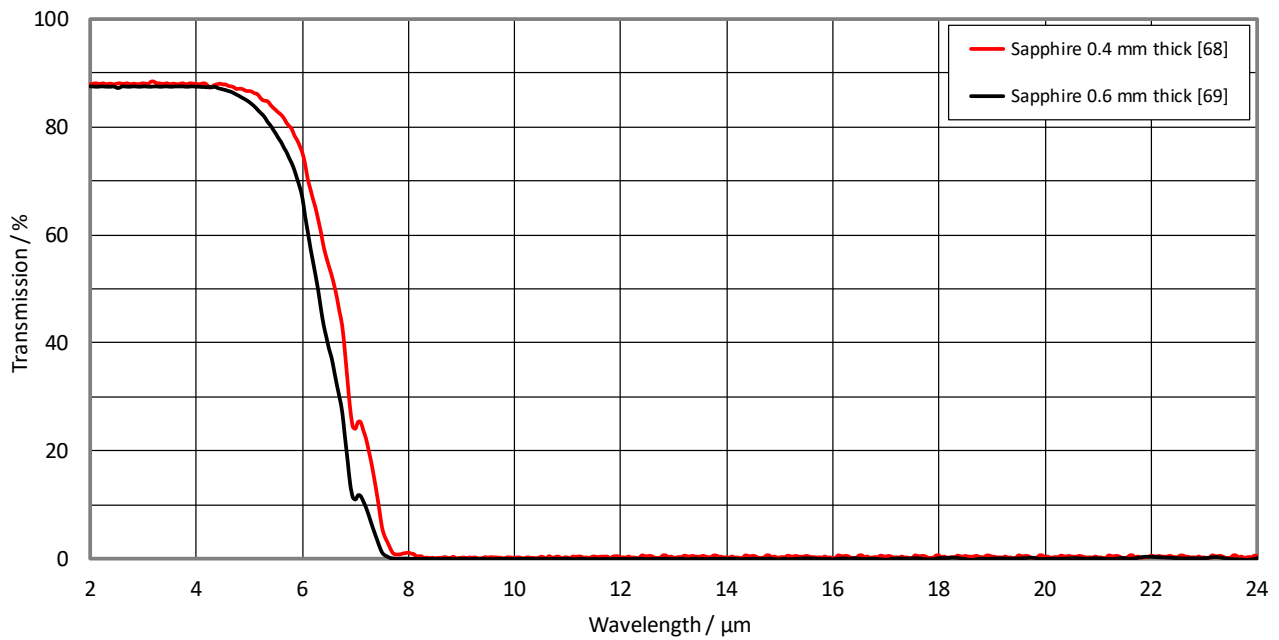


Diagram 11: Sapphire

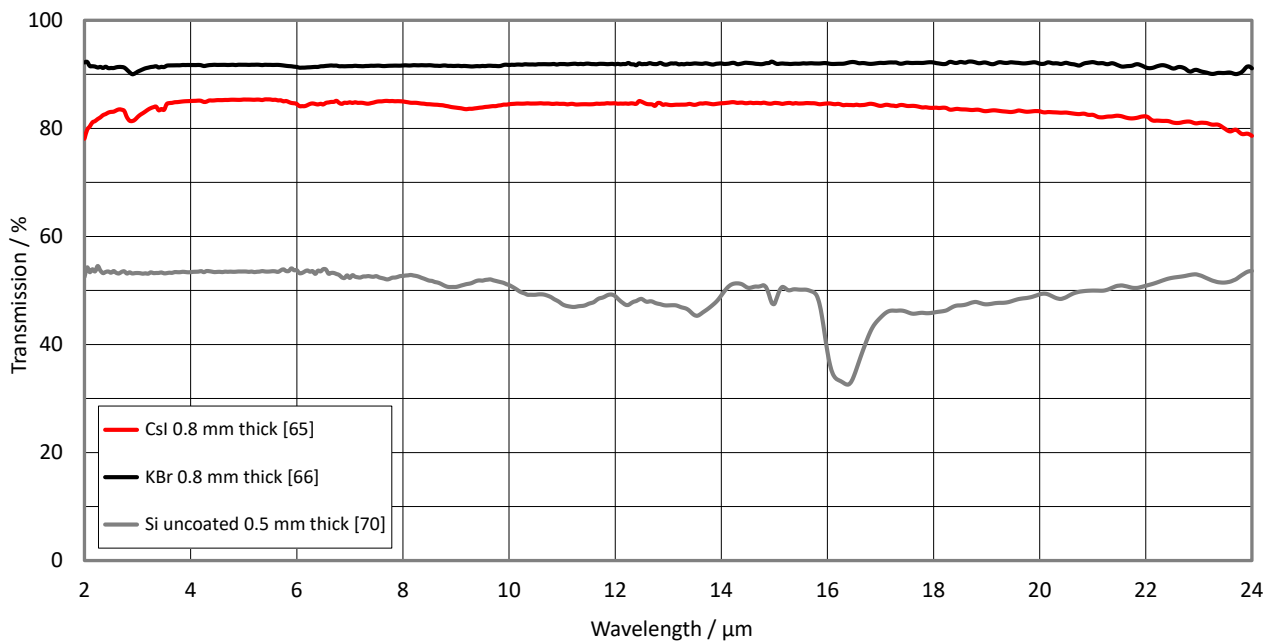


Diagram 12: Materials with a large spectral transmission range

## The Products

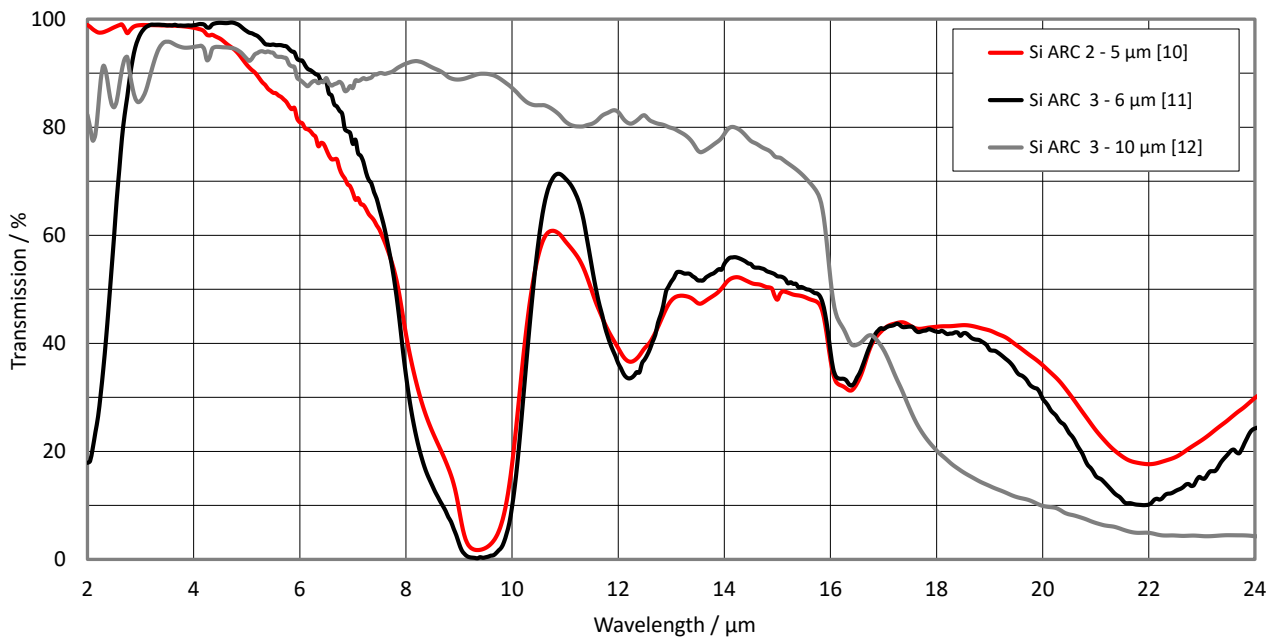


Diagram 13: Silicon windows with antireflective coating

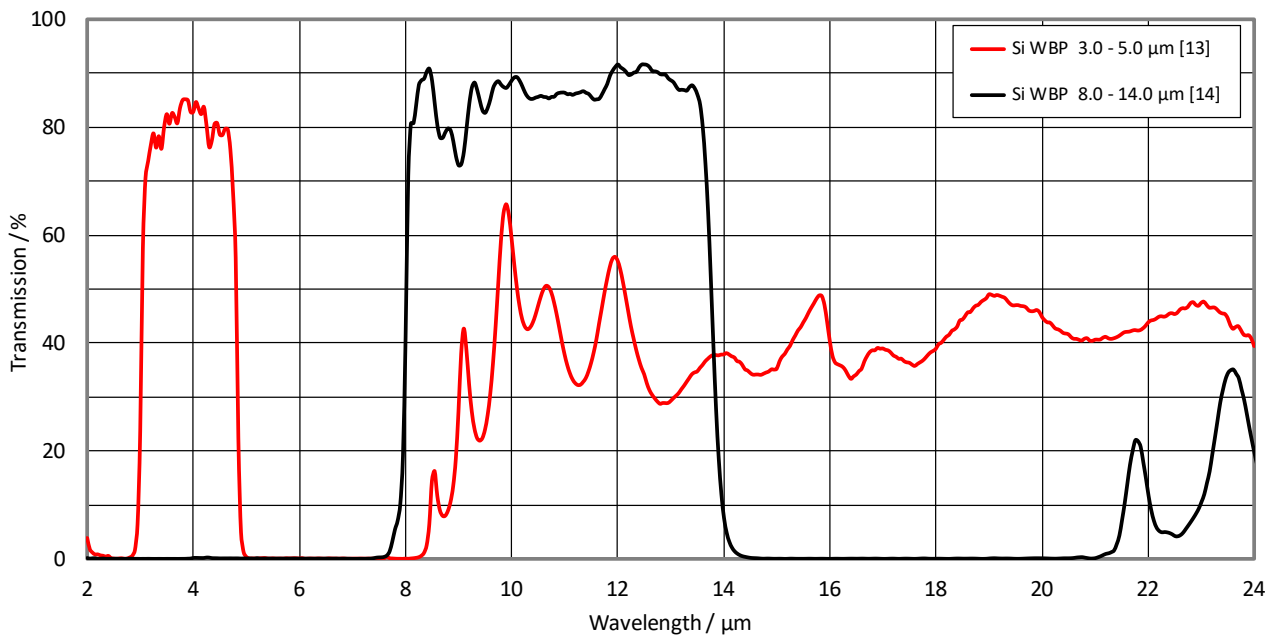


Diagram 14: Silicon-based wideband passes (WBP)

## The Products

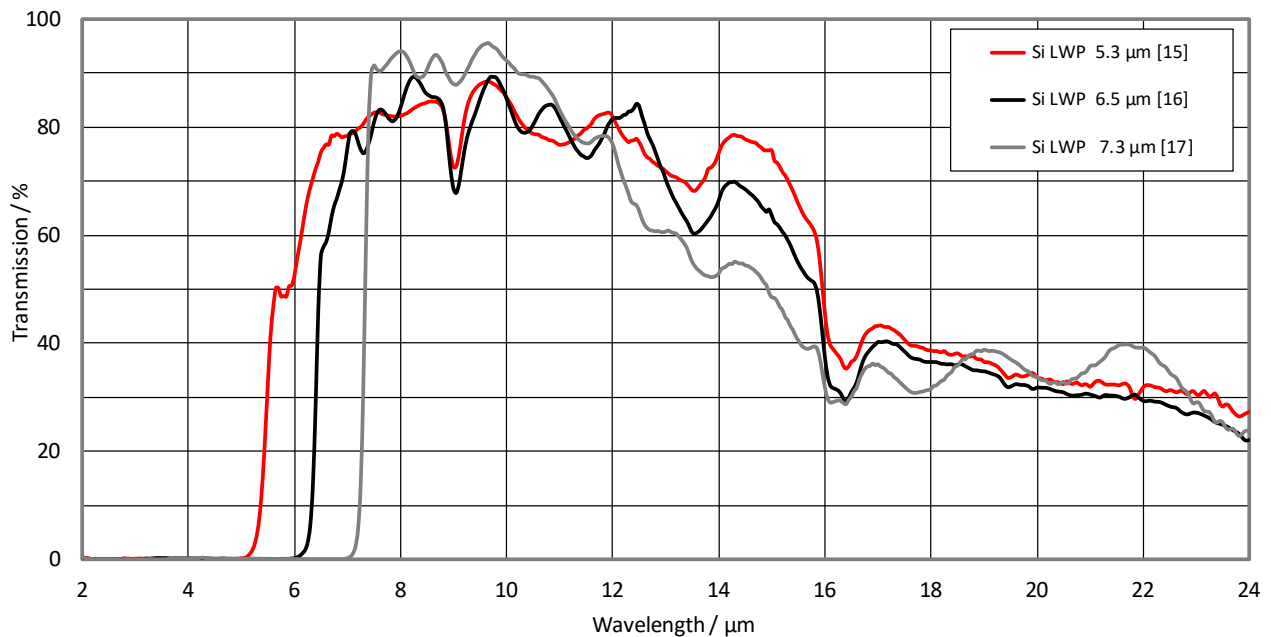


Diagram 15: Silicon-based longwave passes (LWP)

### 2.4.11 Quality

Filters and windows of the detectors from InfraTec comply with MIL-F-48616, a specification for purchasing IR interference filters for the US army. For military new developments it is not anymore in use (inactive), but still valid and is used very frequently in non-military fields because of lack of comparable standards there.

- Surface quality: F-F
- Resistance to environmental influences
  - Temperature § 4.6.9.1
  - Humidity § 4.6.8.2
  - Medium abrasion resistance § 4.6.8.3
  - Adhesion § 4.6.8.1
  - Solubility and possibility for cleaning § 4.6.9.2



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