

Fiber Optic ATR-Probe for Lab Applications



art photonics

FlexiSpec[®]

**Evanescent absorption spectra
without dead zone problems**

**Optimal ATR- crystal selection
to match customer application**

**Cost effective solution for
in-line reaction monitoring**



Our new designed IR fiber ATR probes with PEEK shaft are cost effective and perfect for use in small lab reactors and open vessels.

All ATR probes from FlexiSpec[®] product line are compatible to any type of FT-IR and other IR-spectrometers, photometers and sensors.

Applications:

- Reaction Monitoring in real time
- Remote Polymerization Control
- Crystallization Process Screening
- In-situ IR-Spectroscopy for soft surfaces, pastes and liquids



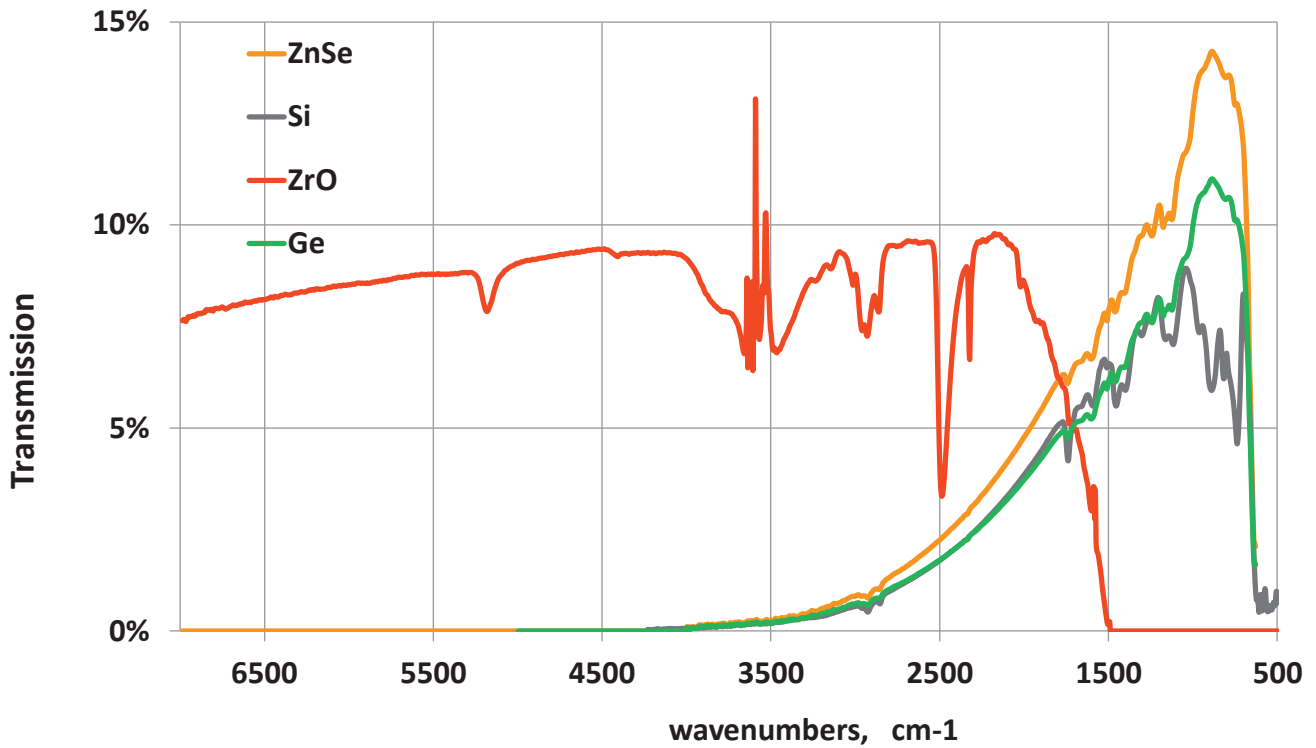
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Transmission spectra of PEEK probes with different ATR elements. Probe length 1.5m



Specification of Fiber Optic ATR-Probes for lab application *FlexiSpec*[®]

Type of ATR element	ZnSe	Ge	Si	ZrO
Transmission range	3.2-17μm (3100-600cm ⁻¹)	3.2-17μm (3100-600cm ⁻¹)	3.2-17μm (3100-600cm ⁻¹)	1.1-6.5μm (9000-650cm ⁻¹)
Fiber type	PIR-900/1000	PIR-900/1000	PIR-900/1000	CIR-500/550
Temperature range	-100°C / +140°C	-100°C / +80°C	-100°C / +140°C	-100°C / +90°C
Pressure (max)	7 Bar	7 Bar	7 Bar	7 Bar

Common Parameters of Fiber Optic ATR-Probes *FlexiSpec*[®]

Total Length	1.5m (opt.: 1m to 5m)
Shaft Length	150mm (opt.: 100mm to 500mm)
Shaft Diameter	6.3mm
Shaft Material	PEEK (polyetheretherketone)
Length of Legs	500mm (opt.: 200 - 500mm)
Protective Tube Material	PEEK
Minimal Bending Radius	130mm
Input / Output Connectors	Long SMA (opt.: any other type)

