

Fiber Optic ATR-Probe for Lab Applications

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 the **FlexiSpec®** product line are compatible with any type of FT-IR and other IR-spectrometers, photometers and sensors.

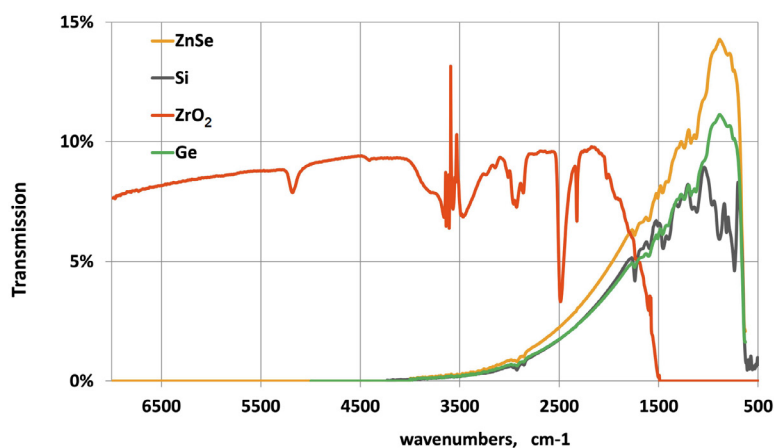


Applications:

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

Features:

- ✓ Evanescent absorption spectra without dead zone problems
- ✓ Optimal ATR- crystal selection to match customer application
- ✓ Cost effective solution for in-line reaction monitoring



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

UV

VIS

NIR

MIR

Working Range

3-17 μm

Specifications

Type of ATR element	ZnSe	Ge	Si	ZrO ₂
Transmission Range	3.2 - 17 μm 3100 – 600 cm^{-1}	3.2 - 17 μm 3100 – 600 cm^{-1}	3.2 - 17 μm 3100 – 600 cm^{-1}	1.1 - 6.5 μm 9000 – 1550 cm^{-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

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

Total Length	1.5m (opt.: 1 m 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)