



Discover LVF range of **ATR fiber probes for lab applications:**

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

All ATR probes are compatible with any type of FT-IR and other IR-spectrometers, photometers and sensors.

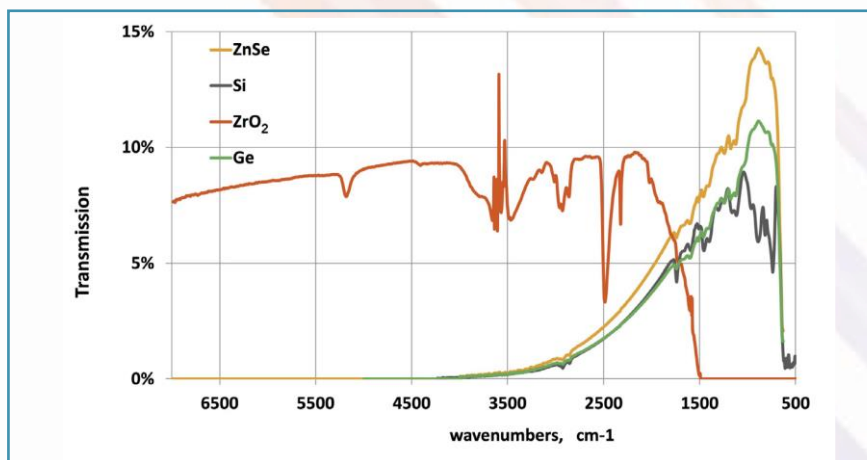
Applications

- 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



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





Discover LVF range of **ATR fiber probes for lab applications** :

Specifications

Type of ATR element	Type	Transmission range	Temperature range	Pressure (max)
Ge	PIR 900/1000	3.2 – 17 μm 3100-600 cm^{-1}	- 100°C / + 80°C	7 Bar
ZnSe	PIR 900/1000	3.2 – 17 μm 3100-600 cm^{-1}	- 100°C / + 140°C	7 Bar
Si	PIR 900/1000	3.2 – 17 μm 3100-600 cm^{-1}	- 100°C / + 140°C	7 Bar
ZrO ₂	CIR 500/550	1.1 – 6.5 μm 9000-1550 cm^{-1}	- 100°C / + 90°C	7 Bar

Parameters

	Total length	1.5m (opt.:1m to 5m)
	Shaft length	150mm (opt.: 100mm to 500 mm)
	Shaft diameter	6.3mm
	Shaft material	PEEK
	Length of legs	500mm (opt.: 200mm to 500mm)
	Protective tube material	PEEK
	Minimal bending radius	130mm
	Input/output connectors	Long SMA (opt.: any other type)

