

Fiber Optic ATR-Probes



art photonics



FlexiSpec®

High throughput in
Mid InfraRed-spectra

ATR-tip shaped for immersion
in liquid flow without dead zone

Flexible and robust for industrial
applications in harsh environment

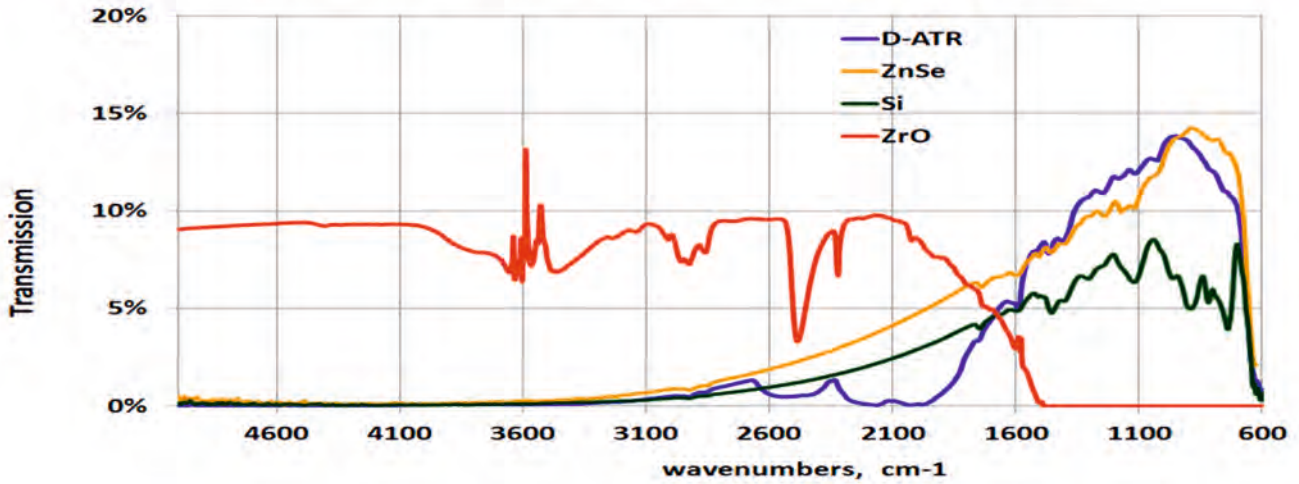
Compatible with any spectrometer

FlexiSpec® product line from **art photonics** is the latest generation of Attenuated Total Reflection Near & Mid IR-fiber ATR-Probes produced for any type of FT-NIR, FT-IR and other IR-spectrometers, photometers and IR-LED or QCL spectral sensors. ATR immersion fiber optic probes with patented design are suitable for reaction monitoring in lab, pilot plant and for full automated process control.

Applications:

- Reaction Monitoring in real time
- Process Analytical Technologies (PAT)
- Remote Polymerization Control
- Crystallization Process Screening
- In-situ IR-Spectroscopy for PAT in Chemical, Petrochemical, Atomic, Biopharmaceutical & Food Industry

Transmission spectra of ATR probes. Probe length 1.5m



Specification of Fiber Optic Immersion ATR-Probes *FlexiSpec*[®]

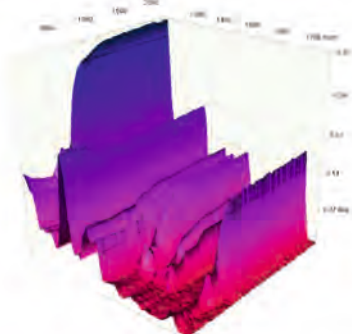
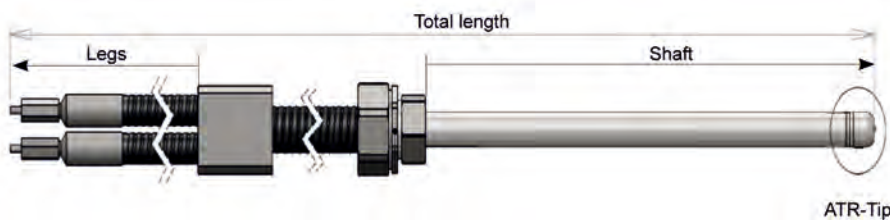
Probe type	Diamond ATR	ZnSe ATR	Silicon	Cubic Zirconium ATR
Transmission range	5.2-17µm (600-1900cm ⁻¹)	3.2-17µm (600-3100cm ⁻¹)	3.2-17µm (600-3100cm ⁻¹)	1.1-6.5µm (650-9000cm ⁻¹)
Fiber type	PIR-900/1000	PIR-900/1000	PIR-900/1000	CIR-500/550
Temperature range	-150°C / + 140°C	-150°C / + 140°C	-100°C / + 140°C	-150°C / + 90°C
Pressure (max)	200Bar, 300 Bar on request	10Bar	100Bar	100Bar

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

Total Length	1.5m (opt.: 1m to 5m)*
Shaft Length	300mm (opt.: 50mm to 500mm)*
Shaft Diameter	12mm, 6.3mm (opt.: 3mm)*
Shaft Material	Hastelloy C22
Length of Legs	500mm (opt.: 200mm to 500mm)
Protective Tube Material	Liquid Tight SS-Conduit, KOPEX-Tube
Minimal Bending Radius	130mm
Input / Output Connectors	Long SMA (opt.: any other type)



*Customized dimensions are available on request



artphotonics.com

art photonics GmbH
Rudower Chaussee 46
12489 Berlin Germany

Phone + 49 (0) 30-6779 887-0
sales@artphotonics.com
www.artphotonics.com

QAS Int. - certified
DIN EN ISO 9001:2008
Zertifikat Nr. A1887GER

