Fiber Optic ATR-Probes





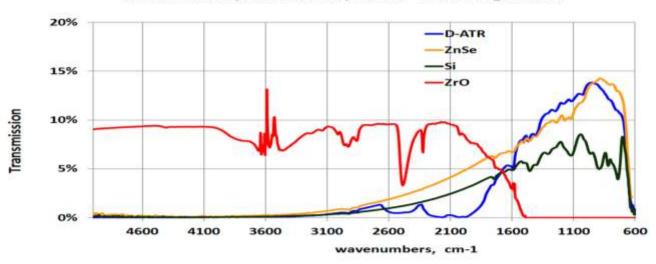
FlexiSpec® product line from art photonics is the latest generation of Attenuated Total Reflection Near & Mid IR-fiber ATR-Probes produced for any type of FT-NIR, FT-IR and other IR-spectrometers, photometers and IR-LED or QCL spectral sensors.

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®				
Type of ATR element	Diamond	ZnSe	Si	ZrO
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	-150°C / + 140°C	-150°C / + 90°C
Pressure (max)	200Bar, 300Bar on request	10Bar	100Bar	100Bar

Total Length	1.5m (opt.: 1m to 5m)*	
Shaft Length	300mm (opt.: 100mm to 700mm)*	
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	100
Minimal Bending Radius	130mm	
Input / Output Connectors	Long SMA (opt.: any other type)	0
Compatible Process-Interfaces	Ceramat-FOS** or SensoGate-FOS**	

