

ATR Accessory

Single Reflection ATR Accessory



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Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

The ATL ATR is a single-reflection ATR accessory from ATL designed for routine use in academic and industrial laboratories. With features designed to inspire confidence in the quality of results and reliability in use, this product sets the benchmark in performance and value in FTIR-ATR Spectroscopy.

►► Key Features

- Monolithic diamond ATR crystals that are both chemically resilient and scratch resistant, as well as extremely tough, being able to sustain the high point loads encountered when sampling hard, irregular solids.
- Interchangeable crystal pucks. Our ever-growing range of options currently includes ZnSe for soft materials, Ge for highly absorbing samples, and options for liquid containment and specular reflectance.
- Repeatable and reproducible sample loads are enabled by the pressure tower. This has an audible 'click' to indicate the preset pressure limit and features a swing anvil arm to allow easy access to the ATR crystal puck. Both plane and pellet anvils are provided with the accessory to allow analysis of samples of various shapes. These anvils are easily interchangeable and stored on the top plate when not in use.

►► Key Specifications

Crystal materials	Diamond, Zinc selenide, Germanium, Silicon
Crystal sealing	Indium
Anvil clamp force	40 lbs (177 N)
Anvil travel	18 mm
Dimensions	W10mmxD10mmx180mm
Weight	1.6 kg

►► ATR crystal materials

Material	Spectral range/cm ⁻¹	Refractive index	Depth of IR penetration/μm
Diamond (AR coated)	7,800 - 400	2.40	2.0
Diamond (extended range)	10,000 - 40	2.40	2.0
ZnSe (AR coated)	7,800 - 500	2.43	2.0
Ge (AR coated)	5,500 - 480	4.01	0.7
Si	8,333 - 100	3.42	0.7

►► Flow Cell

- 4μL-28 μL volume sample cover with Luer connections for filling and flowing sample.
- A larger 128 μL volume can be achieved in conjunction with the liquid sample pucks.
- Positioned and held using the pressure tower.

►► Flow Cell

- Flat is the standard configuration suitable for sampling of all solids and most liquids
- Liquid pucks have a 100 µL sample dish for containment of liquids
- All pucks are manufactured from stainless steel and are quickly and easily interchanged

If you require assistance in finding your recommended puck choice, make sure to take a look at our new ATL Infographic which gives you the relevant information.

►► Order information

Order information

Consists of an optics base, a crystal puck, a built-in pressure tower, flat and concave anvil tips, volatile sample cover, purge bellows, and a baseplate matched to your spectrometer system.

GS10800 ATL ATR diamond

GS10801 ATL ATR diamond (extended range)

GS10802 ATL ATR ZnSe

GS10802 ATL ATR Ge

Please specify spectrometer make and model for correct Benchmark™ baseplate

ATL ATR crystal pucks

GS10810 Diamond puck

GS10811 Diamond (extended range) puck

GS10812 ZnSe puck

GS1081 Ge puck

GS10819 Si puck

ATL Liquid pucks

GS10860 Diamond liquids puck

GS10861 Diamond (extended range) liquid puck

GS10862 ZnSe liquid puck

GS1086 Ge liquid puck

GS10869 Si liquid puck

ATL ATR other sampling pucks

GS10816 Specular reflectance puck

Flow Cell (Note - not for liquids flowing under pressure)

GS10822 Luer port liquid flow cell

Spares and Accessories

GS10820 Stainless steel flat pressure anvil

GS10821 Stainless steel pellet anvil

GS1082 Olatiles cover

GS10707 Purges bellows

▶▶ **The Arrow - the new silicon ATR**

Arrow is an ATR consumable that helps you to zero in on your analysis. It has a silicon chip as the internal reflection element for FTIR-ATR.

▶▶ **Features**

- Consumable silicon ATR chips
- For use with the ATL ATR Accessory
- Made from 100 recycled polypropylene

▶▶ **Benefits**

- Zero cleaning between samples
- Batch sample preparation away from the spectrometer
- Store samples for future reference
- Reduce sample handling

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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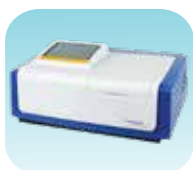
Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

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Spectro 2080+
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Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
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Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



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TOC
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Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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Analytical
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Reach us @



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