

**Specac**

brilliant spectroscopy™



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# ATR RANGE & ACCESSORIES



smiths  
bringing technology to life

Specac was the first to market with a diamond ATR in the 1990's and our Golden Gate™ remains the market leader in the field. Since that time we have developed a number of added value ATR accessories extending the range of possible applications.

[www.specac.com](http://www.specac.com)

## A formidable range of ATR products

Specac was the first to market with a diamond ATR in the 1990's and our Golden Gate™ remains the market leader in the field. Since that time we've developed a number of added value ATR accessories extending the range of possible applications.



### Golden Gate™ Single Reflection ATR

The Golden Gate™ is the worlds most versatile infrared sampling system. It analyzes all types of samples, from hard solids to corrosive liquids, and is easy to use, sensitive, and robust.

- Diamond or Germanium crystal
- High sample throughput - no sample preparation
- Hard, inert, sapphire self-levelling pressure anvil



### Silver Gate™ Evolution Single Reflection ATR

A cost effective, basic, high throughput single reflection ATR accessory for the FTIR analysis of solids, liquids, gels and pastes - with interchangeable crystal plates.

- ZnSe or Germanium crystal
- Rapid analysis of solids, liquids, gels and pastes with little or no preparation
- High optical throughput provides fast and efficient sample measurement



### Gateway™ 6 Reflection ATR

An advanced 6 reflection ATR system for the infrared analysis of solids, liquids, pastes and gels.

- ZnSe, Germanium or Silicon crystal
- High optical throughput
- Static and/or flow through liquid sample capability



### 25 Reflection ATR

For high sensitivity ATR measurements with FT-IR or dispersive instruments.

- ZnSe, Germanium, Silicon or KRS-5 crystal
- Variable angle of incidence (30° - 60°)
- 25 reflections

*Note: The Golden Gate™, Silver Gate™ and Gateway™ ATR systems require a Benchmark™ baseplate for fitting in your instrument.*

## ATR accessories

A range of top quality accessories that add functionality to your ATR product.



### High Temperature Top-Plate

A high temperature top plate option allowing sample heating from ambient temp. to 300°C



### Reaction Cell Top-Plate

A high temperature / high pressure (to 3000psi, 200°C) FTIR reaction chamber with optional integrated stirring function



### Low Temperature Top-Plate

ATR Accessory for the measurement of solids and liquids from ambient to near liquid nitrogen temperatures



### Micro Specular Reflectance Top-Plate

A high performance quality assurance and research grade reflectance accessory for FT-IR analysis



### Supercritical Fluids Top-Plate

A high temp. (to 300°C) high pressure (to 6000psi), low volume accessory for supercritical fluids and polymers



### Envirochamber Top-Plate

This top-plate is specially designed for analyzing hazardous samples



### Crystal Plates

For use with the Silver Gate™ Evolution



### Heated Trough Top-Plate

For use with the Gateway™



### Flow Thru Top-Plate

For use with the Gateway™, also available as a thermostabilized version

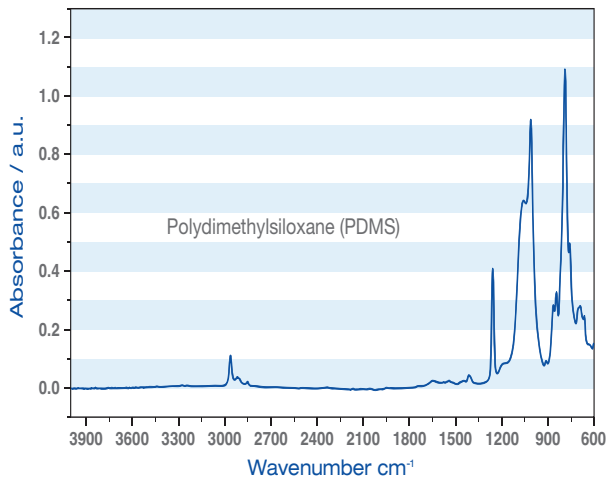


### Wide Range of Anvil Options

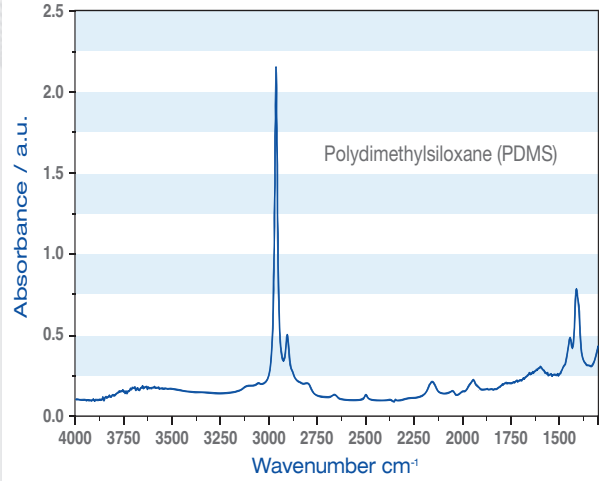
A variety of special anvils are available for use with the Golden Gate™ top-plates improving its sample handling capabilities

## Spectra samples

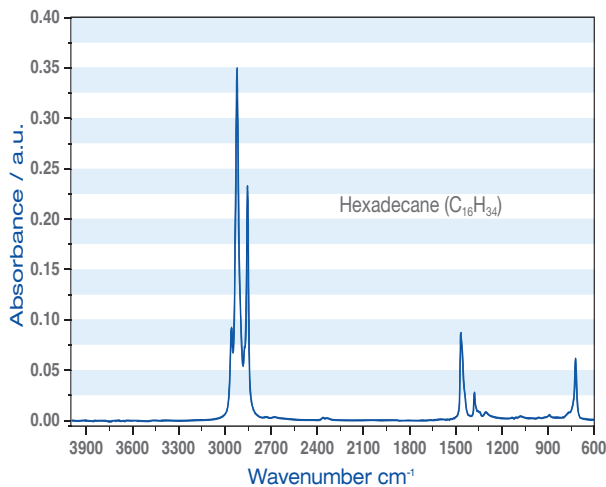
Reflectance spectroscopy is used for samples that are difficult to analyze by transmission. An advantage of many reflectance techniques is that the samples can usually be analyzed without any preparation. Here are a few examples that demonstrate the sensitivity of our products



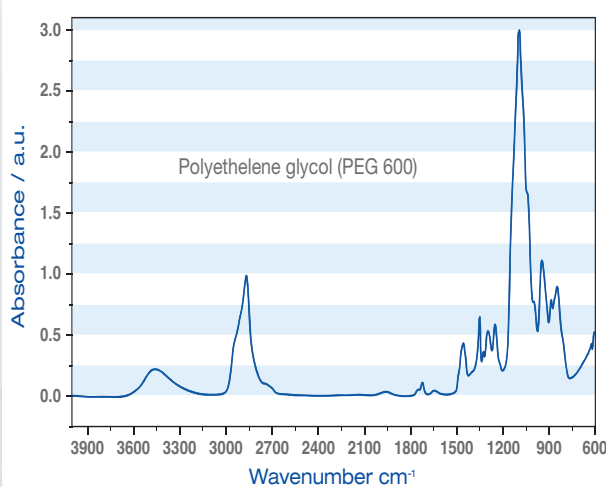
Sample spectra using the Golden Gate™ ATR System



Sample spectra using the 25 Reflection ATR Accessory



Sample spectra using the Silver Gate™ ATR Accessory with ZnSe lenses



Sample spectra using the Gateway™ ATR Accessory

For more information or a quote please contact us...



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