

DATR

Diamond ATR for Fast and Easy IR Sampling

- *Easy & fast sampling*
- *Solids*
- *Polymer and rubber*
- *Pastes and gels*
- *High pressure clamp*



DATR is a powerful ATR sampling accessory used by our Fourier Transform Infrared Spectrometer for analysing solids, polymer, rubber, powders, pastes and gels. It is designed to make IR sampling easy. Because of the extreme hardness of diamond, it is suitable to test various kinds of hard samples without concern of damage to the accessory. Mirrors are designed and made by using diamond turning technology to achieve optimal performance. It is ideal for sample identification and QA/QC applications.

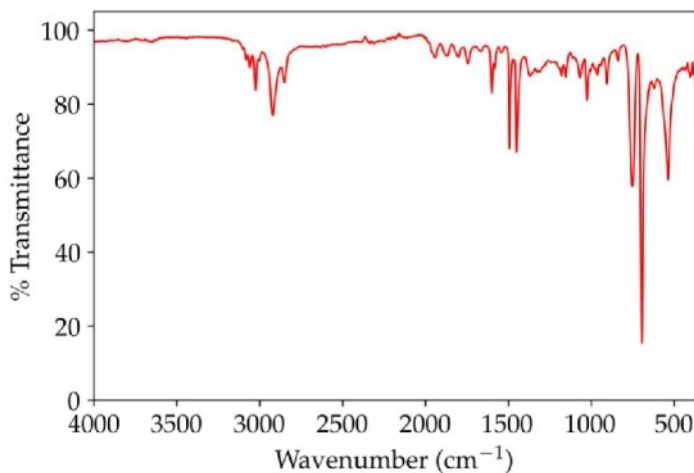
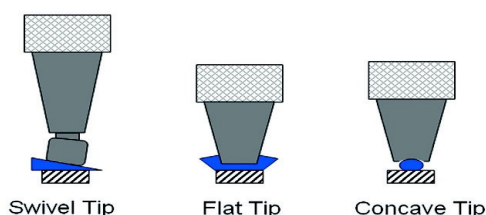
Features

- Single reflection monolithic diamond crystal plate installed
- Sampling for solid, polymer, rubber, powder, paste and gel
- High pressure lamp with a maximum pressure of 18kg (40 lbs)
- *Crystal diameter of 1.8mm with a pressure of 10,141PSI*
- *Swivel, flat and concave tips for various types of samples*

High pressure clamp

High pressure clamp consist of the base which attaches directly to the accessory's top plate. Pressure clamp is pinned in place and easily changeable within seconds. The clamp includes tips for hard, soft and pellet shaped samples. Ability to deliver high pressure is very important for achieving spectral quality. It utilizes a slip-clutch mechanism to prevent excessive pressure from being applied to the crystal.

- Maximum pressure of 18kg (40 lbs)
- Crystal diameter of 1.8mm with a pressure of 10,141PSI



Polystyrene spectrum collected using a diamond ATR

Specifications

ATR Crystal	Spectral Range	Crystal Plate Housing	Diamond Surface Diameter	Maximum Pressure
Monolithic Diamond	4000 - 400 cm ⁻¹	Stainless Steel	1.8 mm	18 kg / 10141 psi