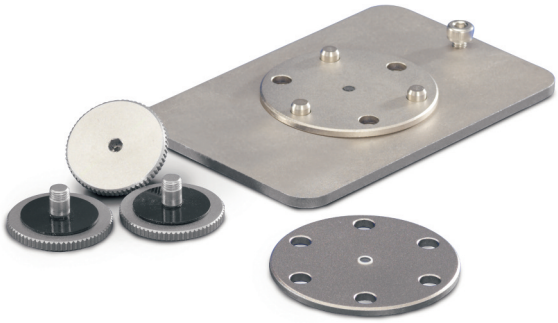
Micro Diamond Cell –
For Compressing and Holding Samples for Microanalysis



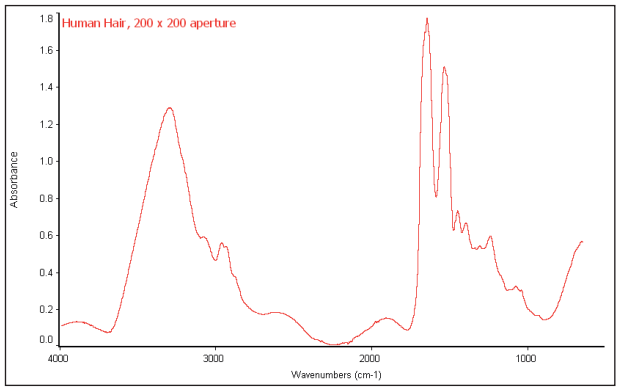
FEATURES OF THE MICRO DIAMOND CELL

- *Compression and positioning for micro samples*
- *1.6 or 2.0 mm clear aperture versions*
- *Easy thumb wheel mechanism for application of pressure*
- *Compatible with UV to Far-IR spectral regions*
- *Compatible with PIKE µMAX IR microscope and PIKE beam condensers*
- *14,000 psi pressure (10 kgf/mm²)*

Small samples are easily held in place and flattened to ideal thicknesses for FTIR analysis using the PIKE Technologies Micro Diamond Cell. The diamond windows in this cell are Type IIA synthetic for excellent transmission from the UV through Far-IR spectral regions. The hardness of diamond enables maximum pressure to be applied to all types of crystalline, fiber, or amorphous materials. Typical samples include fibers, paint chips, rubbers, and plastic materials including laminates.

The large clear aperture of the PIKE Technologies Micro Diamond Cell (either 1.6 or 2.0 mm) makes it easy to place the micro sample into position while viewing under a stereomicroscope. The large thumb wheels provide easy means of tightening and flattening the samples.

The PIKE Technologies Micro Diamond Cell is mounted on a standard 2" x 3" plate compatible with your FTIR spectrometer sample compartment. However, it performs best with a beam condenser or IR microscope.



Human hair sample flattened in the PIKE Diamond Cell and analyzed using the µMAX IR microscope

ORDERING INFORMATION

Micro Diamond Cell

PART NUMBER	DESCRIPTION
162-0010	Micro Diamond Cell, 1.6 mm
162-0020	Micro Diamond Cell, 2.0 mm

Notes: The Micro Diamond Cell is easily laid onto the X, Y stage of the PIKE µMAX IR microscope. Mounting the Micro Diamond Cell into the PIKE beam condensers requires the optional slide holder.

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