

Microsampling Tools – Compression Cells and Sample Manipulation

Micro Compression Cell

An excellent sampling tool for supporting small samples for transmission analysis with the PIKE μ MAX IR microscope. Single crystals, flattened fibers, multi-layer polymer micro samples are firmly supported between salt windows – typically KBr for transmission analysis. The cell uses 13 x 2 mm windows and has a clear aperture of 10 mm. Compression of the sample is achieved by rotation of the knurled retainer.



Diamond Window

Offers a durable, multi-use window for microscopic transmission measurements spanning from the UV to the far-IR regions. Two diamond sizes are available, 2.5 and 4 mm and are secured in a 13-mm diameter housing. The window is compatible with the 3-Position Sample Slide (sold separately).



Micro Plane with either Carbide or Diamond Blade

A useful tool for preparation of thin slices of multi-layered samples for transmission microanalysis. The Micro Plane is available with either carbide or diamond blade. The carbide blade is recommended for general polymer materials. The diamond blade is recommended when the multi-layered sample has metallic content. The Micro Plane features an adjustable knife edge to control sample thickness.



3-Position Sample Slide

The PIKE 3-Position Sample Slide is designed for placement of 13-mm windows for transmission analysis or the 13-mm gold-surfaced disk for reflection analysis when using the μ MAX IR Microscope. An open port of the 3-Position Sample Slide is used conveniently to support a flattened free-standing fiber for transmission analysis.



Micro TouchPick Pen Set

Ideal for the delicate maneuvering of your specimens. The benefits are excellent control of sample handling, ease of handling fragile and statically charged samples, and no residue is left on the sample. The ergonomic pen set includes two pens with different sized adhesive tips (0.17 and 0.62 mm).



Micro Vice-Mini

A multi-use sample holder fitting most microscope stages including IR, Raman and light microscopes. It makes holding round and unevenly-shaped samples easy. It may tilt the sample for correcting oblique sample orientation, and may be used to stretch fibers and polymer films.



ORDERING INFORMATION

MICROSAMPLING TOOLS

PART NUMBER	DESCRIPTION
034-3060	Micro Compression Cell <i>(requires selection of two 13 x 2 mm windows)</i>
160-1135	Window, KBr, 13 x 2 mm (1 ea.)
160-1008	Windows, KBr, 13 x 2 mm (6 pack)
162-0030	Micro Plane, carbide blade
162-0040	Micro Plane, diamond blade
162-0045	Micro TouchPick Pen Set <i>Includes pen with tip size 0.62 mm, pen with tip size 0.17 mm.</i>
162-0048	Micro Vice-Mini
162-0046	Diamond Window, 2.5 mm aperture
162-0049	Diamond Window, 4 mm aperture
162-6401	3-Position Sample Slide <i>(recommended selection of window or disk)</i>
300-0025	Gold-Surfaced Mirror, 13 x 2 mm
034-3070	IR Microsampling Kit <i>Includes 3-position sample slide with gold mirror, 2 KBr windows, scissors, tweezers, probes and roller knife with replacement blades</i>
034-0923	Micro Roller Knife

Note: For items not in this list please contact PIKE Technologies.
For other 13 x 2 mm windows available, see the Transmission section.