DC-3 Diamond Compression Cell

A Universal Diamond Compression Cell specially designed for FT-IR microscopes and the Specac Microfocus Beam Condenser



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The DC-3 diamond compression cell enables samples to be compressed to an ideal thickness for transmission experiments. It uses two type Illa diamond windows, each mounted into a Hastelloy plate. The clear aperture of 1.5 mm diameter provides excellent signal throughput when positioned at the beam focus of an FT-IR spectrophotometer using an MCT detector. For optimum performance with a DTGS detector, the Microfocus Beam Condenser P/N GS02560 (with ZnSe lenses) or P/N GS02561 (with KRS-5 lenses) is recommended to be used with the DC-3 in order to obtain high quality spectra.

The DC-3, because of its small size and shape can also be used with Infrared Microscopes, where the large aperture allows for more than one sample to be loaded and compressed at one time. Each individual sample could then be selectively moved into the light beam from the IR microscope, saving on the time needed to mount and prepare each sample between analyses.

ordering information

GS02555 DC-3 Diamond Compression Cell
Options

GS02556* Diasqueeze Plus Kit with ZnSe lenses
GS02557* Diasqueeze Plus Kit with KRS-5 lenses
Includes: DC-3 Diamond Compression Cell
Microfocus Beam Condenser Forceps
Stainless steel sample needle
Sample preparation knife Blades (10)
Blade remover (2)

Key features

- > Type IIIa flat diamond windows
- > Large clear aperture 1.5mm
- Hastelloy body construction(3" x 2" x 9/16", 76.2 x 50.8 x 14.3mm)
- > Universal use with FT-IR microscopes and
- > Microfocus Beam Condenser
- > High working pressure, high throughput

Applications

- Compression to optimum transmission thickness of polymers, rubbers and minerals
- Microanalysis of brittle, elastic semi-rigid fibres, particles and fragments

GS02560* Microfocus Beam Condenser-ZnSe Lenses
GS02561* Microfocus Beam Condenser-KRS-5 Lenses
GS02570 KRS-5 Iens kit for use with

Microfocus Beam Condenser

GS02571 ZnSe lens kit for use with Microfocus Beam Condenser

Spares and consumables

GS02508 Sample forceps

GS02509 Stainless steel sample needle

GS02510 Sample preparation knife with blades (10)

and blade remover

*Please specify spectrometer make and model.

