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Item # 0005C-867W, Model SL-3 KBr Sealed Liquid Cell with circular (FTIR) aperture

For this cell, you must specify (i.) the path length, (ii.) whether or not calibration is required and (iii.) whether or not calibration and matching is required (see below). This cell has a rectangular (dispersive) aperture.
The Model SL-3 stainless steel sealed liquid cell has been designed to permit accurate alignment of the cell components. Alignment is accomplished by placing the front plate face down on a block of wood or other object about 3/4' thick and then placing the front lead gasket with holes in alignment with the hypodermic ports. The front drilled window is then placed in position over the ports, which are still visible. The amalgamated spacer, rear window, neoprene gasket and back plate can then be positioned without difficulty to seal the cell. The front gasket and front plate of the SL-3 are amalgamated permanently.
The aperture of the dispersive cell is 22.5mm x 10mm. The window size is 38.5mmx19.5mmx4mm.

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Specifications | Additional Information

Specifications

Pathlength	0.015 mm 0.025 mm 0.05 mm 0.1 mm 0.2 mm 0.5 mm 1.0 mm
Cell Calibration	Calibration Calibration and Matching No calibration
Aperture	Circular Aperture - FTIR
Material	KBr

Additional Information

The Model SL-3 Stainless steel sealed liquid spectrophotometer cell ensures accurate visual alignment of the cell components. These cells never have partially blocked filling ports and they never leak. The SL-3 is assembled by placing the front plate face down and then placing the front lead gasket with holes in alignment with the luer lock syringe filing ports. The front drilled window is then placed in position over the ports which are still visible. The mercury amalgamated spacer, rear window, neoprene gasket and back plate can then be positioned without difficulty to seal the cell. All steel plates used in the cell are lapped optically flat to ensure a perfect amalgam seal and accurate alignment. This is the reverse of most spectrophotometer cell designs, which do not insure accurate alignment. Configuration of one of the filling ports on the edge of the front plate facilitates proper filling and emptying of the cell and prevents liquid sample material from damaging the windows and also prevents breaking the amalgam seal.

The Model SL-3 cell will fit all dispersive and FTIR spectrophotometers. The aperture of the dispersive cell is 22.5mm x 10mm and the aperture of the FTIR cell is 16mm. The window size for both the dispersive and FTIR

cell is 38.5mm x 19.5mm x 4mm. Available nominal pathlengths are 1mm, 0.5mm, 0.2mm, 0.1mm, 0.05mm, 0.025mm and 0.015mm. Other pathlengths can be ordered. Pathlengths can be nominal or calibrated to 4 decimal places (e.g. 1.0152mm) and cell pathlengths can be matched within ±3% for interchangability. ICL also offers an infrared cell reconditioning service and a calibration service for all spectrophotometer cells.

The Model SL-3 cell is now available with pathlengths of 2.5 micron, 5 micron, 7.5 micron and 10 micron.
Part numbers which end with the letter "W" are nominal part numbers only and are used online simply to identify the cell type and window material. Part numbers which end in "W" do not denote a specific path length. We will assign the correct part number when you place your order. If you want confirmation of the correct part number please request it when you call in your order or request an on-line e-mail confirmation of the correct number.

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