Sealed Liquid Spectrophotometer Cells - Model SL-3

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.

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