

SL-3 Stainless steel sealed liquid cell



The Model SL-3 Stainless steel sealed liquid 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 filling 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 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 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 $\pm 3\%$ for interchangeability. ICL also offers an infrared cell reconditioning service and a calibration service for all cells.

The Model SL-3 cell is now available with pathlengths of 2.5 micron, 5 micron, 7.5 micron and 10 micron.

0005A-590W	Model SL-3 NaCl Sealed Liquid Cell with rectangular (dispersive) aperture mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive	NaCl	0.015 mm0.025
0005B-783W	Model SL-3 KCl Sealed Liquid Cell with rectangular (dispersive) aperture mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive	KCl	0.015 mm0.025
0005C-777W	Model SL-3 KBr Sealed Liquid Cell with rectangular (dispersive) aperture mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive	KBr	0.015 mm0.025
0005D-790W	Model SL-3 CaF ₂ Sealed Liquid Cell with rectangular (dispersive) aperture mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive	CaF ₂	0.015 mm0.025
0005E-797W	Model SL-3 BaF ₂ Sealed Liquid Cell with rectangular (dispersive) aperture mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive	BaF ₂	0.015 mm0.025
0005F-804W	Model SL-3 CsI Sealed Liquid Cell with rectangular (dispersive) aperture mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive	CSI	0.015 mm0.025

0005G-811W	Model SL-3 KRS-5 Sealed Liquid Cell with rectangular(dispersive) aperture	0.015 mm0.025
mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive KRS-5	
0005H-824W	Model SL-3 Inf. Qtz. Sealed Liquid Cell with rectangular(dispersive) aperture	0.015 mm0.025
mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive Infrasil Quartz	
0005I-818W	Model SL-3 ZnS Sealed Liquid Cell with rectangular (dispersive) aperture	0.015 mm0.025
mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive ZnS	
0005J-839W	Model SL-3 ZnSe Sealed Liquid Cell with rectangular(dispersive) aperture	0.015 mm0.025
mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive ZnSe	
0005K-832W	Model SL-3 AgCl Sealed Liquid Cell with rectangular(dispersive) aperture	0.015 mm0.025
mm0.05 mm0.1 mm0.2 mm0.5 mm1.0 mm	Rectangular Aperture - Dispersive AgCl	
0005A-853W	Model SL-3 NaCl Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05
mm0.1 mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR NaCl	
0005B-860W	Model SL-3 KCl Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05 mm0.1
mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR KCl	
0005C-867W	Model SL-3 KBr Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05 mm0.1
mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR KBr	
0005D-874W	Model SL-3 CaF2 Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05
mm0.1 mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR CaF2	
0005E-880W	Model SL-3 BaF2 Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05
mm0.1 mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR BaF2	
0005F-887W	Model SL-3 CsI Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05 mm0.1
mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR CSI	
0005G-894W	Model SL-3 KRS-5 Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05
mm0.1 mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR KRS-5	
0005H-907W	Model SL-3 Inf. Qtz. Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05
mm0.1 mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR Infrasil Quartz	
0005I-900W	Model SL-3 ZnS Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05 mm0.1
mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR ZnS	
0005J-930W	Model SL-3 ZnSe Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05
mm0.1 mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR ZnSe	
0005K-923W	Model SL-3 AgCl Sealed Liquid Cell with circular (FTIR) aperture	0.015 mm0.025 mm0.05
mm0.1 mm0.2 mm0.5 mm1.0 mm	Circular Aperture - FTIR AgCl	



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