

# SUPER-SEALED LIQUID CELLS



## Optimized Reproducibility in Quantitative Analysis

- Precision fixed sampling pathlength
- Proprietary seal technology for leak free operation
- Complete window material offerings for your sample types
- Rectangular plate design to fit your FT-IR spectrometer
- Individually serialized to aide in record keeping
- Optional factory calibration for your convenience and method certainty

The Spectral Systems Super-Sealed™ Liquid Cells are designed and manufactured for precision quantitative analysis and maximum reproducibility. The fixed pathlength of the Super-Sealed Cell eliminates potential variability due to reassembly of a demountable liquid cell. The proprietary seal technology used in our Super-Sealed Liquid Cells provides for leak free operation, exceptional durability and maximum productivity.

The cell mount for the Super-Sealed Liquid Cells is the standard 2.0" × 3.0" to fit your FT-IR spectrometer. All Super-Sealed Liquid Cells are manufactured with Luer Lock fill ports for convenient sample filling and cell cleaning.

The Super-Sealed Liquid Cells are available with your selection of sampling pathlength and window materials. Window materials used in the Super-Sealed Liquid Cells are of the highest quality composition and maximum flatness for precision quantitative analysis. For special applications we offer our

Spectral Systems XP-BBAR coating for our Super-Sealed Liquid Cells to increase IR throughput of high refractive index window materials. We can also manufacture these cells with wedged windows for improved performance in high resolution spectral measurements. Please contact us for details.

For your convenience we offer factory calibration of any of our Super-Sealed Liquid Cells.

## SPECIFICATIONS

Plate Geometry	Rectangular
Plate Dimensions	2.0" W × 3.0" H
IR Beam Port Geometry	Circular
IR Beam Port Diameter	13 mm
Nominal Pathlength	±10% guaranteed
Calibrated Pathlength	Optional
Seal Type	Proprietary, leak free
Fill Port Type	Luer Lock
Window Flatness	$\lambda/5$ at 10.6 micron (Except KRS-5, Ten Wave at 633 nm)

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## ORDERING INFORMATION

### Super-Sealed Liquid Cells

PATHLENGTH (MM) VOLUME (ML)	0.015 0.005	0.025 0.009	0.050 0.018	0.100 0.036	0.150 0.054	0.200 0.072	0.500 0.18	1.000 0.36	5.000 1.8	10.000 3.6
BaF <sub>2</sub>	097-15-001	097-15-002	097-15-003	097-15-004	097-15-005	097-15-006	097-15-007	097-15-008	097-15-009	097-15-000
CaF <sub>2</sub>	097-16-001	097-16-002	097-16-003	097-16-004	097-16-005	097-16-006	097-16-007	097-16-008	097-16-009	097-16-000
CsI	097-17-001	097-17-002	097-17-003	097-17-004	097-17-005	097-17-006	097-17-007	097-17-008	097-17-009	097-17-000
KBr	097-18-001	097-18-002	097-18-003	097-18-004	097-18-005	097-18-006	097-18-007	097-18-008	097-18-009	097-18-000
KRS-5	097-19-001	097-19-002	097-19-003	097-19-004	097-19-005	097-19-006	097-19-007	097-19-008	097-19-009	097-19-000
NaCl	097-20-001	097-20-002	097-20-003	097-20-004	097-20-005	097-20-006	097-20-007	097-20-008	097-20-009	097-20-000
IR Quartz	097-21-001	097-21-002	097-21-003	097-21-004	097-21-005	097-21-006	097-21-007	097-21-008	097-21-009	097-21-000
ZnSe	097-22-001	097-22-002	097-22-003	097-22-004	097-22-005	097-22-006	097-22-007	097-22-008	097-22-009	097-22-000
ZnS	097-23-001	097-23-002	097-23-003	097-23-004	097-23-005	097-23-006	097-23-007	097-23-008	097-23-009	097-23-000

Super-Sealed Liquid Cells include Teflon® stoppers (2 each) to complete the seal of your sample within the cell.

### Super-Sealed Liquid Cells Calibration

DESCRIPTION	PART NO.
Calibration of Liquid Cell	097-00-000

Please order 1 each of this part number for each cell to be calibrated.

### Replacement Parts, Options for Super-Sealed Liquid Cells

DESCRIPTION	PART NO.
Teflon Stoppers (12 each)	097-3711
Glass Syringe, 1 mL	097-3801
Glass Syringe, 5 mL	097-3805
Glass Syringe, 10 mL	097-3810

For other options for Super-Sealed Liquid Cells, please contact Spectral Systems.



Also available in rectangular port version – optimized for dispersive spectrophotometers. Please contact us for detail.