

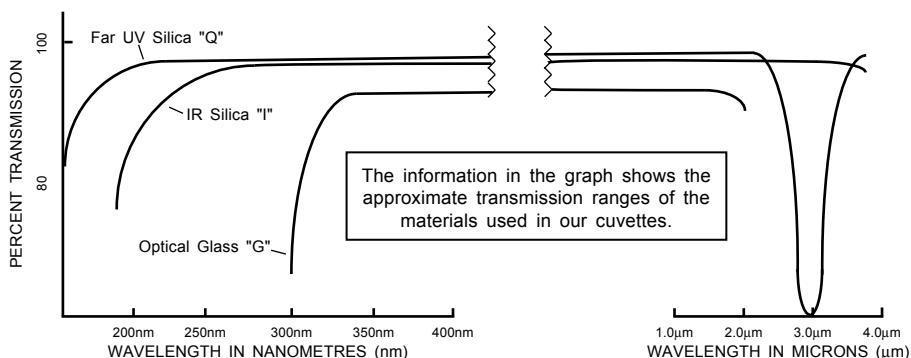
## UV & Visible Light Cells for Spectrophotometers

Our cells are manufactured to meet the most exacting requirements of modern spectrophotometer procedures. All cells are completely fused without the use of low melting intermediate glasses or cements. In other words, quartz is fused to quartz and glass is fused to glass. This eliminates strains due to differences in coefficients of expansion found in cells fused with intermediate low melting glasses. Because of the fused construction, the window joints are unaffected by all types of cleaning solutions.

## Cleaning of Cells

If cells are cleaned carefully after use their transmission characteristics will remain fairly constant. Improper use or poor cleaning will result in staining or etching of surfaces thus reducing transmission and increasing light scattering. To minimise cell deterioration, clean the cell with a mild agent as soon as possible after use. For aqueous solutions rinse the cell with distilled water. For organic materials rinse with a suitable spectrograde solvent. If mild detergents are used they should be true solutions and should be free of suspended material. Some deposits may be removed by rinsing with 3-5% hydrochloric acid. Heavy metal salts may be removed by rinsing in concentrated nitric acid or aqua regia. At no time should acids remain in the cells for longer than one hour and, after an acid rinse, the cell should be rinsed with distilled water.

Material	Guaranteed Transmittance	Possible Deviation in Matching
Far UV Silica "Q"	At 200mu about 85%	At 200mu max. 2%
IR Silica "I"	At 220mu about 80%	At 220mu max. 2%
Optical Glass "G"	At 320mu about 75%	At 320mu max. 1%



## UV CELLS    UV CELLS    UV CELLS    UV CELLS    UV CELLS    UV CELLS

Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 1 STANDARD CELL</b>										
1	238	16.00	217	40.00	352	39.00	1	12.5	45	0.4
1	061	16.00	184	40.00	127	40.50	2	12.5	45	0.7
1	357	12.50	208	36.00	379	34.50	5	12.5	45	1.7
1	435	12.50	267	36.00	776	34.50	10	12.5	45	3.5
1	543	15.00	299	48.50	419	47.00	20	12.5	45	7.0
1	013	17.00	315	56.00	448	54.00	30	12.5	45	10.5
1	574	17.50	274	62.00	135	60.50	40	12.5	45	14.0
1	583	23.50	259	66.50	401	65.00	50	12.5	45	17.5
1	058	POR	903	POR	034	POR	100	12.5	45	

**TYPE 13C SCREW CAP**

13C	N/A		056	POR	012	POR	10	12.5	56	3.5
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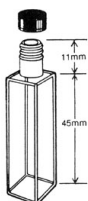
**TYPE 1GS GRADED SEAL**

1GS	N/A		546	POR	043	POR	10	12.5	45	3.5
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Tube OD=8mm Overall Height 120mm



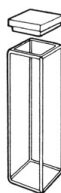
Type 1



Type 13C



Type 1GS/3GS



Type 3



Type 9/9F



Type 9B

Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 3 FLUORIMETER CELL</b>										
3	895	25.50	457	71.00	030	71.00	5	12.5	45	1.7
3	369	25.50	536	71.00	019	71.00	10	12.5	45	3.5
3	389	34.00	175	85.50	348	85.50	20	12.5	45	7.0
3	939	39.00	808	98.50	839	98.50	40	12.5	45	10.5
3	442	53.00	533	101.50	078	101.50	50	12.5	45	14.0

**TYPE 3GS FLUORIMETER CELL**

3GS	N/A		904	POR	356	POR	10	12.5	45	3.5
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Tube OD=8mm Overall Height 120mm

**TYPE 9 SEMI MICRO**

9	154	21.00	060	57.50	509	57.50	5	12.5	45	0.7
9	003	21.00	699	57.50	718	57.50	10	12.5	45	1.4
9	243	28.00	001	71.00	972	71.00	20	12.5	45	2.8
9	664	34.50	757	79.00	210	79.00	30	12.5	45	4.2
9	042	40.50	783	89.50	398	89.50	40	12.5	45	5.6
9	376	61.50	179	91.50	308	93.50	50	12.5	45	7.0

**TYPE 9B SEMI MICRO SELF MASKING**

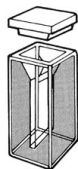
9B	214	48.00	749	98.00	040	98.00	5	12.5	45	0.7
9B	281	48.00	421	98.00	397	98.00	10	12.5	45	1.4
9B	590	62.50	200	125.00	837	122.50	20	12.5	45	2.8
9B	674	89.50	782	161.50	384	154.00	40	12.5	45	4.2

**TYPE 9F SEMI MICRO FLUORIMETER**

9F	406	34.00	463	101.50	343	101.50	10	12.5	45	1.4
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UV CELLS	UV CELLS	UV CELLS	UV CELLS	UV CELLS	UV CELLS
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Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 17 MICRO SHORT RECTANGULAR</b>										
17	291	14.00	482	41.00	393	41.00	5	12.5	25	0.2
17	354	14.00	549	41.00	063	41.00	10	12.5	25	0.4
17	235	17.50	387	51.00	009	51.00	20	12.5	25	0.6
17	682	19.50	335	57.50	025	57.50	30	12.5	25	0.8
17	105	24.50	467	63.50	547	63.50	40	12.5	25	1.0
17	271	POR	762	70.50	095	71.50	50	12.5	25	1.2
<b>TYPE 17B MICRO SHORT SELF MASKING</b>										
17B	118	POR	610	69.00	703	69.00	5	12.5	25	0.2
17B	714	28.00	106	69.00	723	69.00	10	12.5	25	0.4
17B	734	24.50	236	72.50	303	72.50	20	12.5	25	0.6
17B	205	31.00	329	80.50	279	80.50	30	12.5	25	0.8
17B	649	36.00	765	89.50	662	89.50	40	12.5	25	1.0
17B	468	42.00	234	95.00	630	95.00	50	12.5	25	1.2
<b>TYPE 18 MICRO WITH LID</b>										
18	763	23.50	396	60.00	153	60.00	5	12.5	45	0.35
18	392	23.50	241	60.00	347	60.00	10	12.5	45	0.7
18	842	31.00	011	73.50	318	73.50	20	12.5	45	1.4
18	375	34.50	278	82.50	297	82.50	30	12.5	45	2.1
18	006	40.50	717	96.00	466	96.00	40	12.5	45	2.8
18	715	51.50	650	101.50	138	101.50	50	12.5	45	3.5



Type 17



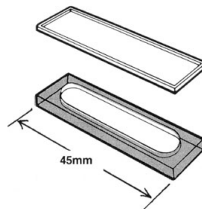
Type 17B



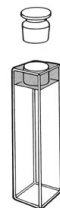
Type 18/18F



Type 18B



Type 20C

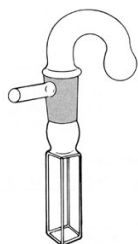


Type 21/23

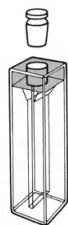
Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 18F MICRO FLUORIMETER</b>										
18F	182	101.50	661	115.00	293	POR	10	12.5	45	0.7
<b>TYPE 18B SELF MASKING MICRO TYPE</b>										
18B	626	41.50	882	101.50	158	101.50	5	12.5	45	0.35
18B	832	40.50	906	101.50	374	101.50	10	12.5	45	0.7
18B	287	50.50	873	139.50	596	142.50	20	12.5	45	1.4
18B	746	POR	101	POR	312	POR	40	12.5	45	2.8
<b>TYPE 20C DEMOUNTABLE</b>										
20C	N/A	POR	302	POR	216	POR	0.01	12.5	45	.003
20C	015	POR	493	POR	864	POR	0.1	12.5	45	0.03
20C	486	POR	636	POR	731	POR	0.5	12.5	45	0.15
20C	273	POR	149	POR	362	POR	1.0	12.5	45	0.30
<b>TYPE 21 STANDARD RECTANGULAR WITH STOPPER (Add 10% for bottle top)</b>										
21	032	POR	327	POR	739	POR	1	12.5	45	0.4
21	338	POR	834	POR	231	POR	2	12.5	45	0.7
21	553	23.50	993	45.00	921	45.00	5	12.5	45	1.7
21	856	23.50	359	45.00	673	45.00	10	12.5	45	3.5
21	288	30.00	488	53.50	587	53.50	20	12.5	45	7.0
21	735	32.50	818	60.00	256	60.00	30	12.5	45	10.5
21	795	34.50	701	63.50	361	63.50	40	12.5	45	14.0
21	470	46.50	248	73.50	744	73.50	50	12.5	45	17.0

UV CELLS	UV CELLS	UV CELLS	UV CELLS	UV CELLS	UV CELLS
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Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 23 FLUORIMETER RECTANGULAR WITH STOPPER (Add 10% for bottle top)</b>										
23	524	37.00	176	84.50	901	84.50	5	12.5	45	1.7
23	026	37.00	663	84.50	422	84.50	10	12.5	45	3.5
23	035	48.50	461	114.00	008	114.00	20	12.5	45	7.0
23	266	52.00	768	126.00	253	126.00	40	12.5	45	10.5
23	209	55.50	525	134.00	675	134.00	50	12.5	45	14.0
<b>TYPE 28F ANAEROBIC FLUORIMETER</b>										
28F	833	POR	215	POR	635	POR	10	12.5	45	3.5
<b>TYPE 29 SEMI MICRO WITH STOPPER</b>										
29	360	POR	283	POR	103	POR	1	12.5	45	0.17
29	722	POR	290	POR	708	POR	2	12.5	45	0.35
29	104	34.50	773	68.00	355	68.00	5	12.5	45	0.7
29	620	34.50	123	68.00	613	68.00	10	12.5	45	1.4
29	295	43.50	526	89.50	213	89.50	20	12.5	45	2.8
29	351	47.00	323	96.00	258	96.00	30	12.5	45	4.2
29	528	50.50	771	100.50	820	100.50	40	12.5	45	5.6
29	634	53.50	150	107.00	0151	107.00	50	12.5	45	7.0
<b>TYPE 29F SEMI MICRO FLUORIMETER WITH STOPPER</b>										
29F	031	53.00	932	118.00	027	POR	10	12.5	45	1.4



Type 28F



Type 29/29F



Type 29B



Type 30/30F

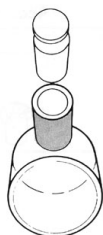


Type 30B

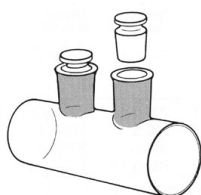
Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 29B SEMI MICRO WITH STOPPER SELF MASKING</b>										
29B	358	POR	250	POR	444	POR	5	12.5	45	0.7
29B	364	69.00	572	122.50	841	122.50	10	12.5	45	1.4
29B	341	POR	872	POR	774	POR	20	12.5	45	2.8
29B	381	POR	469	POR	507	POR	40	12.5	45	5.6
<b>TYPE 30 MICRO WITH STOPPER</b>										
30	201	POR	769	POR	545	POR	1	12.5	45	0.7
30	563	POR	340	POR	336	POR	2	12.5	45	1.4
30	544	37.00	416	67.00	292	POR	5	12.5	45	2.8
30	140	37.00	112	67.00	321	POR	10	12.5	45	5.6
30	400	40.50	785	79.50	324	POR	20	12.5	45	0.7
30	202	42.50	456	82.50	270	POR	30	12.5	45	1.4
30	117	45.00	736	87.00	114	POR	40	12.5	45	2.8
30	090	58.00	345	105.00	496	POR	50	12.5	45	5.6
<b>TYPE 30F MICRO FLUORIMETER WITH STOPPER</b>										
30F	378	49.00	185	120.50	880	POR	10	12.5	45	0.7
<b>TYPE 30B MICRO WITH STOPPER SELF MASKING</b>										
30B	789	POR	428	111.50	642	POR	5	12.5	45	0.35
30B	462	69.00	346	115.00	277	115.00	10	12.5	45	0.7
30B	760	POR	206	140.50	325	POR	20	12.5	45	1.4
30B	869	POR	784	158.50	386	POR	40	12.5	45	2.8

UV CELLS	UV CELLS	UV CELLS	UV CELLS	UV CELLS	UV CELLS
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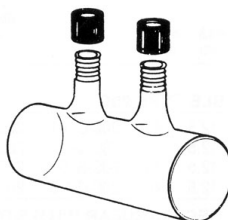
Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 32 CYLINDRICAL CELL ONE STOPPER</b>										
32	454	29.50	538	57.00	532	57.00	10	22	45	2.8
32	425	33.50	686	61.50	125	61.50	20	22	45	5.6
32	438	36.00	432	68.00	286	68.00	50	22	45	14.1
32	399	38.00	756	72.50	368	72.50	100	22	45	28.2
<b>TYPE 34 CYLINDRICAL CELL TWO STOPPER</b>										
34	230	46.00	430	83.50	753	87.00	50	22	45	14.1
34	902	53.50	330	88.00	502	92.50	100	22	45	28.2
<b>TYPE 34SC CYLINDRICAL CELL WITH SCREW CAP</b>										
34S	N/A		527	169.50	627	169.50	50	22	45	14.1
34S	N/A		619	187.50	004	180.00	100	22	45	28.2
<b>TYPE 37 LONG OUTLET CYLINDRICAL</b>										
37	578	POR	786	POR	223	POR	1	22	45	0.28
37	021	POR	689	POR	054	POR	2	22	45	0.56
37	177	37.00	038	62.50	772	62.50	5	22	45	1.4
37	688	37.00	720	62.50	203	62.50	10	22	45	2.8
<b>TYPE 44 FLOW THROUGH MICRO</b>										
44	N/A		300	POR	039	POR	10	12.5	45	0.9
<b>TYPE 44B FLOW THROUGH MICRO SELF MASKING</b>										
44B	778	POR	518	POR	N/A		10	12.5	45	1.8



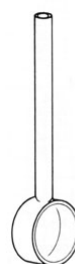
Type 32



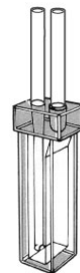
Type 34



Type 34S



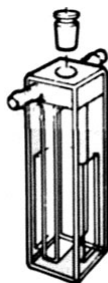
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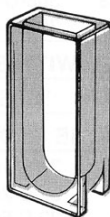
Type 44



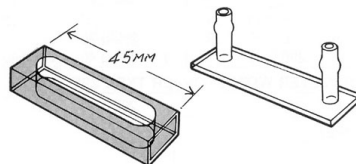
Type 44B



Type 61



Type 96



Type 49

Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 49 FLOW THROUGH DEMOUNTABLE</b>										
49	023	POR	816	POR	107	POR	0.1	12.5	45	0.030
49	571	POR	567	POR	698	POR	0.5	12.5	45	0.150
49	178	POR	088	POR	269	POR	1	12.5	45	0.300
49	239	POR	679	POR	012	POR	2	12.5	45	0.600
49	124	POR	878	POR	560	POR	5	12.5	45	1.560
49	788	POR	523	POR	867	POR	10	12.5	45	3.120

## UV CELLS    UV CELLS    UV CELLS    UV CELLS    UV CELLS    UV CELLS

Cell Type	Optical Glass G	£	Spectrosil UV-VIS Q	£	Spectrosil UV-VIS-NIR I	£	Path (mm)	Width (mm)	Height (mm)	Vol. (ml)
<b>TYPE 61 JACKETED CELL</b>										
61	N/A		429	POR	730	POR	10	12.5	45	2.6
61	N/A		N/A		N/A		20	12.5	45	5.2
61	N/A		N/A		N/A		40	12.5	45	10.4
<b>TYPE 96 ABSORPTIOMETER RECTANGULAR</b>										
96	046		N/A		N/A		2.5	28	40	
96	082		N/A		N/A		5	28	40	
96	548		N/A		N/A		10	28	40	
96	618		N/A		N/A		20	28	40	
96	334		N/A		N/A		40	28	40	
96	276		N/A		N/A		50	28	40	
96	068		N/A		N/A		100	28	40	
96	233		N/A		N/A		200	28	40	

### ACCESSORIES FOR CELLS

Cat.No.	Description	£
544	Extra Teflon Lid	1.10
436	Extra Teflon Stopper	1.65
MCC	Matching Charge per Cell	2.10

Cat.No.	Description	£
450	Concentrated Cleaning Solution for Cells	7.00
EB2	Extra box for 2x10mm Cells	1.20
EB4	Extra box for 4x10mm Cells	1.30

### Adjustable Cuvette Holder

The Adjustable Cuvette Holder accepts rectangular cuvette style cells with pathlengths ranging from 1mm to 50mm and aligns the cell in the beam of any IR or FTIR spectrophotometer. It fits the 2" x 3" universal slide mount in all IR & FTIR spectrophotometers.



Cat.No.	Description	£
RCH50	Pathlength 1-50mm	135.00

### Cylindrical Cuvette Holders

This cell holder was designed for use with cylindrical UV-VIS cells. The clear aperture is 19mm.



Cat.No.	Description	£
CHC10	Pathlength 10mm	90.00
CHC50	Pathlength 50mm	90.00
CHC100	Pathlength 100mm	90.00

### Square Cuvette Holder

The Square Cuvette Holder is suitable for all cuvette style rectangular cells with a 10mm lightpath. The clear aperture is 20mm x 10mm. The cell holder properly aligns the cell in the beam of an IR or FTIR spectrophotometer. It fits the 2" x 3" universal slide mount in all IR and FTIR spectrophotometers.



Cat.No.	Description	£
SCH10	Pathlength 10mm	95.00