

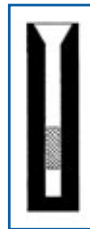


## 2.2.3 Micro Cells

## 2.2.3 Micro Cells with lids or stoppers made of PTFE

A **micro cell** has a slightly smaller volume than that of a semi-micro cell. It is either a rectangular cell with an inner width of up to 2 mm or a cylindrical cell with an inner diameter of up to 5 mm.

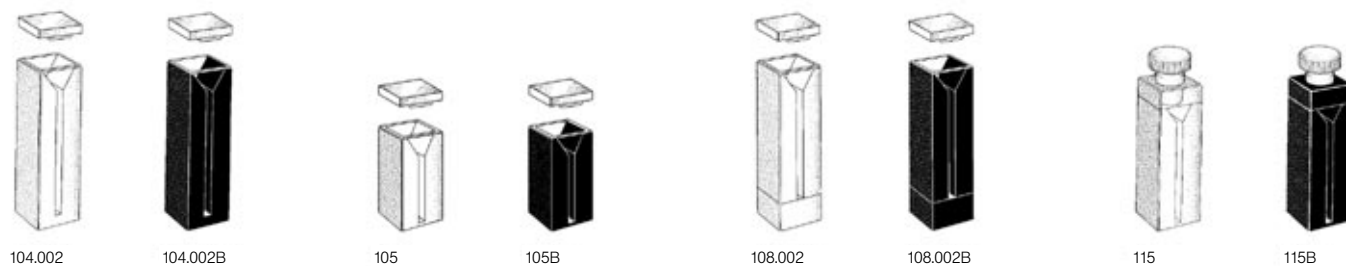
The cross-sectional area of the light beam should be chosen so that it is smaller than the inner width. This will guarantee that the side walls and the base do not come into contact with the light beam.



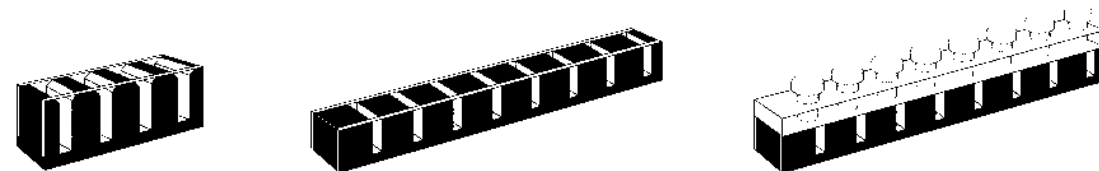
Cross-sectional area

### Especially Important: The Unobstructed Passage of Light

It is important for the successful operation of these cells that the light beam can only pass through the measuring chamber. For this reason the cross-sectional area of the light beam should be chosen correctly and the cell should be positioned accurately in the holder. Black material is herefore used especially for cells with a small aperture or a large light path. The black side walls and base function as a mask, which ensures that only the light which has gone through the sample reaches the detector.



104.002 104.002B 105 105B 108.002 108.002B 115 115B



660.129 660.202 660.236

Catalogue Number	Window Material	Light Path mm	Outside Dim. H x W x D mm	Inside Width mm	Base Thickn. mm	Volume $\mu$ l	Number of Windows	Remarks
104.002-OS	Special Optical Glass	10	45 x 12.5 x 12.5	2	3.2	700	2	
104.002-QS	Quartz SUPRASIL	10	45 x 12.5 x 12.5	2	3.2	700	2	
104.002B-OS	Special Optical Glass	10	45 x 12.5 x 12.5	2	3.2	700	2	black side walls and base
104.002B-QS	Quartz SUPRASIL	10	45 x 12.5 x 12.5	2	3.2	700	2	black side walls and base
105-OS	Special Optical Glass	10	25 x 12.5 x 12.5	2	1.5	300	2	
105-QS	Quartz SUPRASIL	10	25 x 12.5 x 12.5	2	1.5	300	2	
105B-QS	Quartz SUPRASIL	10	25 x 12.5 x 12.5	2	1.5	300	2	black side walls and base
108.002-OS	Special Optical Glass	10	45 x 12.5 x 12.5	2	9	500	2	
108.002-QS	Quartz SUPRASIL	10	45 x 12.5 x 12.5	2	9	500	2	
108.002B-OS	Special Optical Glass	10	45 x 12.5 x 12.5	2	9	500	2	black side walls and base
108.002B-QS	Quartz SUPRASIL	10	45 x 12.5 x 12.5	2	9	500	2	black side walls and base
115-OS	Special Optical Glass	10	40 x 12.5 x 12.5	2	1.5	400	2	
115-QS	Quartz SUPRASIL	10	40 x 12.5 x 12.5	2	1.5	400	2	
115B-QS	Quartz SUPRASIL	10	40 x 12.5 x 12.5	2	1.5	400	2	black side walls and base

### Multiple Cells

660.129-QS	Quartz SUPRASIL	10	15 x 36.16 x 12.5	3 (4x)	2.5	300 (4x)	2	4 chamber cell without lids/stoppers
660.202-QS	Quartz SUPRASIL	10	9 x 74.5 x 12.5	2 (8x)	2	120 (8x)	2	8 chamber cell without lids/stoppers
660.236-QS	Quartz SUPRASIL	10	12 x 74.5 x 12.5	2 (8x)	2	120 (8x)	2	8 chamber cell with stoppers