



## 2.3.7 Cell With Tubes

## 2.3.7 Cell With Tubes macro

The cells of this series are intended for fluorescence applications in which the cells are exposed to extremes of temperature.

General remarks about cells used for measurements in extreme temperatures can be found in chapter 2.2.7.

### Two Examples of Special Cells

Especially for work at low temperatures we offer the cell model 221.001 whose design is different. The cell is manufactured from a drawn tube with a square cross-section made of SUPRASIL quartz, the end of which is fused shut and formed into a flat base. Because it is made from one piece of material and has rounded inner edges, this cell can withstand the higher thermal stress characteristic of low temperature work. The drawing process results in surfaces which do not have the same optical quality as precision cell windows.

For applications requiring a less pronounced thermal resistance we offer the cell model 221-BF in which the cell body is made of Borofloat and tube is made of Duran.

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
221-QS	Quartz SUPRASIL	10 x 10	40 x 12.5 x 12.5	10	1.25	3500	4*	Quartz/Duran tubes $\varnothing$ 8 mm, 80 mm long
221-BF	Borofloat	10 x 10	40 x 12.5 x 12.5	10	1.25	3500	4*	* on request with a polished base

macro | for measurements at high and low temperatures

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
221.001-QS	Quartz SUPRASIL	10 x 10 Tol. $\pm$ 0.2	40 x 12.5 x 12.5	10	1.25	3500	4	Quartz/Duran tubes $\varnothing$ 8 mm, 80 mm long



221



221-BF



221.001