

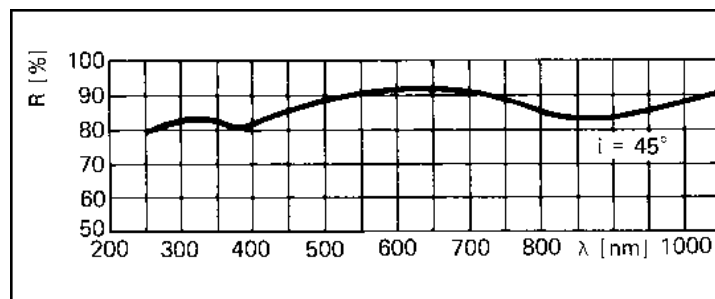


## 2.3.10 Cells with Mirror-Coated Outer Surfaces

Cells with mirror-coated windows are used for fluorescence measurements to increase the light gain. The window opposite the incident light, as well as the one at right angles to it, are mirror-coated on the outside. The incident light and the emitted fluorescent rays are reflected by the coated windows. The effect of this is an approximately threefold gain in fluorescence output.

The mirror coating consists of a vacuum-deposited aluminium layer with a reflectance of over 80% in the 250 nm to 1000 nm range. The aluminium layer, which is covered with a protective coating of quartz, displays great hardness and durability. The mirror-coated windows are further guarded against scratches by a layer of black lacquer.

With regard to the positioning of the cell in the fluorimeter, please note that it is the left window, as seen from the direction of the incident light that is mirror-coated.



Reflectance of an aluminium layer



## 2.3.10 Cells with Mirror-Coated Outer Surfaces

micro | with lid or stopper made of PTFE

Catalogue Number	Window Material	Light Path mm	Outside Dim. H x W x D mm	Inside Width mm	Base Thickn. mm	Volume μl	Number of Windows	Remarks
101R-QS	Quartz SUPRASIL	10 x 10	45 x 12.5 x 12.5	10	1.25	3500	2	on request with a polished base
111R-QS	Quartz SUPRASIL	10 x 10	46 x 12.5 x 12.5	10	1.25	3500	2	on request with a polished base

## semi-micro | with lid or stopper made of PTFE

Catalogue Number	Window Material	Light Path mm	Outside Dim. H x W x D mm	Inside Width mm	Base Thickn. mm	Volume μl	Number of Windows	Remarks
104FR-QS	Quartz SUPRASIL	10 x 4	45 x 12.5 x 12.5	4	1.25	1400	2	on request with a polished base
114FR-QS	Quartz SUPRASIL	10 x 4	46 x 12.5 x 12.5	4	1.25	1400	2	on request with a polished base

