UV FUSED SILICA WINDOWS

Synthetic fused silica be Harder and more shock resistant than BK7, and with a low coefficient of thermal expansion, fused silica windows can operate over a much wider thermal range. They are also have much higher resistance to radiation darkening from ultraviolet light, X-rays, gamma rays, and neutrons.

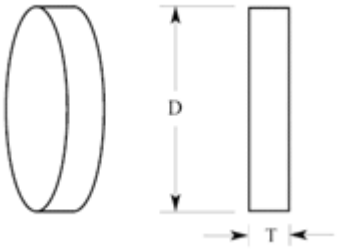
It is ideally siuted for application from UV to IR specetrum.

The ideal window allows the optical beam to pass unimpeded and unchanged with high durability according to requirement of applications. In order to come close to this ideal, our windows and optical parallels are manufactured considering with transmittance, homogeneity, sub-surface damage, surface flatness and parallelism of the materials or in polishing processes to achieve high transmittance, low wavefront distortion and low scatter.

Non-coated and AR coated products are available.

Standard Specifications:

Optical Material:	UV grade Fused Silica
Diameter Tolerance:	+0.0, -0.1mm
Thickness Tolerance:	± 0.2mm
Clear Aperture:	>85%
Parallelism:	See the table
Surface Quality:	20-10 sratch and dig
Wavefront Distortion:	see the table
Bevel:	<0.25mm X 45°
Coating:	available upon request



Standard UV-Fused Silica Windows

Dia(mm)	T(mm)	Wavefront Distortion	Product Number
Parallelism 5 arc sec			
10.0	6.0	Lambda/10 per 25mm	UQT-WDFH1001
12.7	6.0	Lambda/10 per 25mm	UQT-WDFH1002
25.0	6.0	Lambda/10 per 25mm	UQT-WDFH1003
25.4	6.5	Lambda/10 per 25mm	UQT-WDFH1004
30.0	6.0	Lambda/10 per 25mm	UQT-WDFH1005
50.0	10.0	Lambda/10 per 25mm	UQT-WDFH1006
Parallelism 1 arc min			
10.0	3.0	Lambda per 25mm	UQT-WDFL1101
12.7	3.0	Lambda per 25mm	UQT-WDFL1102
15.0	3.0	Lambda per 25mm	UQT-WDFL1103
15.0	3.0	Lambda per 25mm	UQT-WDFL1104
25.0	3.0	Lambda per 25mm	UQT-WDFL1105
25.4	3.5	Lambda per 25mm	UQT-WDFL1106

30.0	3.0	Lambda per 25mm	UQT-WDFL1107
50.0	3.0	Lambda per 25mm	UQT-WDFL1108
50.8	3.0	Lambda per 25mm	UQT-WDFL1109

Please Contact ultiQuest for other dimensions in prototype and production quantities.

NOTES!

- Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.