

Windows

Windows are glass with parallel surfaces used to enable optical radiation to pass from one environment to another without allowing environments to mix.

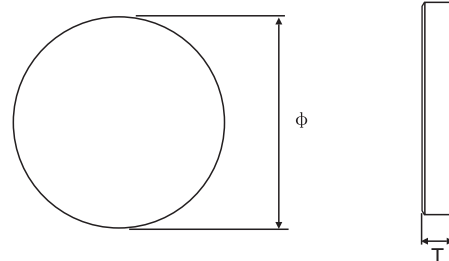
Material, transmission, scattering, wavefront distortion, damage threshold and resistance to certain environments should be considered when selecting windows.

Manufacturing capability of Windows

Dimensional tolerance	0.01mm
Surface quality	10-5 S/D
Parallelism	2 arcsec
Flatness	$\lambda/10 @ 633\text{nm}$

BK7 Windows

Dimensional tolerance: $\pm 0.1\text{mm}$
 Surface quality: 40-20 S/D
 Parallelism: 3 arcmin
 Flatness: $\lambda/4 @ 633\text{nm}$
 Protective bevel Protective bevel



Item#	Material	Diameter	Thickness
WIN01-10.0x1	N-BK7	$\varnothing 10.0$	1.0
WIN01-12.7x2	N-BK7	$\varnothing 12.7$	2.0
WIN01-15.0x2	N-BK7	$\varnothing 15.0$	2.0
WIN01-20.0x2	N-BK7	$\varnothing 20.0$	2.0
WIN01-25.4x3	N-BK7	$\varnothing 25.4$	3.0
WIN01-30.0x3	N-BK7	$\varnothing 30.0$	3.0
WIN01-38.1x3	N-BK7	$\varnothing 38.1$	3.0
WIN01-50.8x5	N-BK7	$\varnothing 50.8$	5.0

Notes:

- 1, The listed windows are without coating, please contact us for coating.
- 2, Custom windows are available upon request.

Price
on request

Volume
Discount

Custom
Design

UV Fused silica Windows

Dimensional tolerance: $\pm 0.1\text{mm}$
Surface quality: 40-20 S/D
Parallelism: 3 arcmin
Flatness: $\lambda/4 @ 633\text{nm}$
Protective bevel Protective bevel

Price
on request

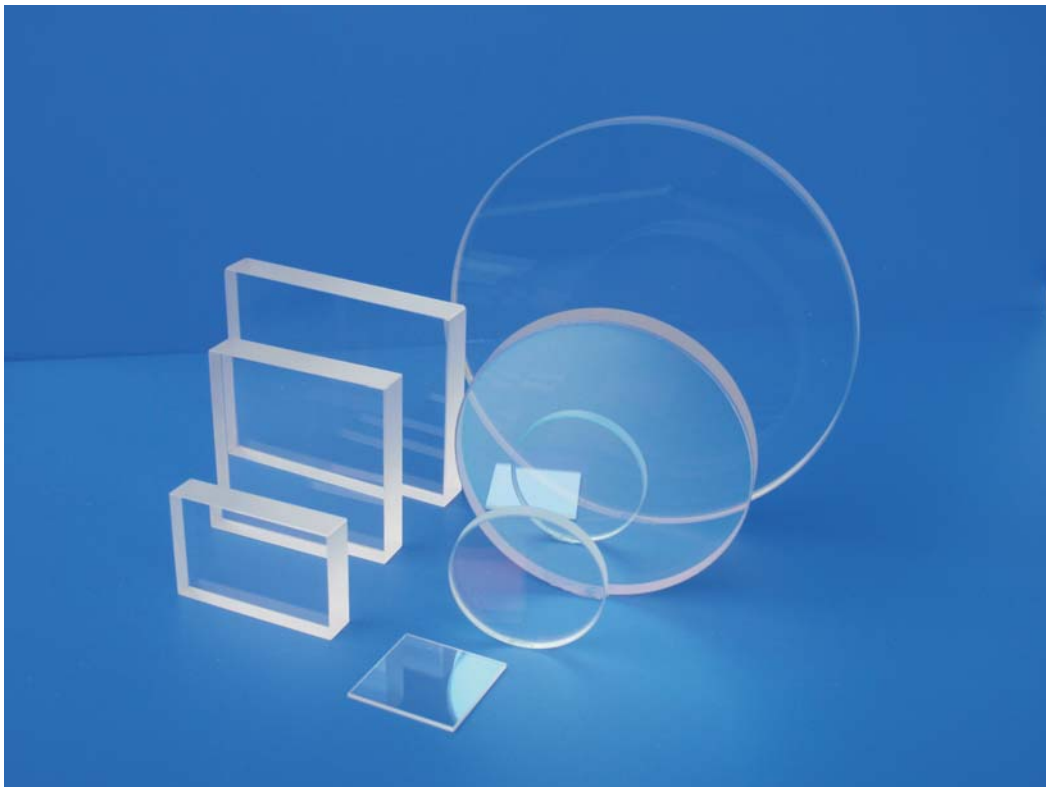
Volume
Discount

Custom
Design

Item#	Material	Diameter	Thickness
WIN02-10.0x1	UV Fused silica	$\varnothing 10.0$	1.0
WIN02-12.7x2	UV Fused silica	$\varnothing 12.7$	2.0
WIN02-15.0x2	UV Fused silica	$\varnothing 15.0$	2.0
WIN02-20.0x2	UV Fused silica	$\varnothing 20.0$	2.0
WIN02-25.4x3	UV Fused silica	$\varnothing 25.4$	3.0
WIN02-30.0x3	UV Fused silica	$\varnothing 30.0$	3.0
WIN02-38.1x3	UV Fused silica	$\varnothing 38.1$	3.0
WIN02-50.8x5	UV Fused silica	$\varnothing 50.8$	5.0

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CaF2 Windows (IR grade, UV grade)

Calcium fluoride is commonly used as a window material for both infrared and ultraviolet wavelengths, since it is transparent in these regions (about 0.15 μ m to 9 μ m) and exhibits extremely weak birefringence.

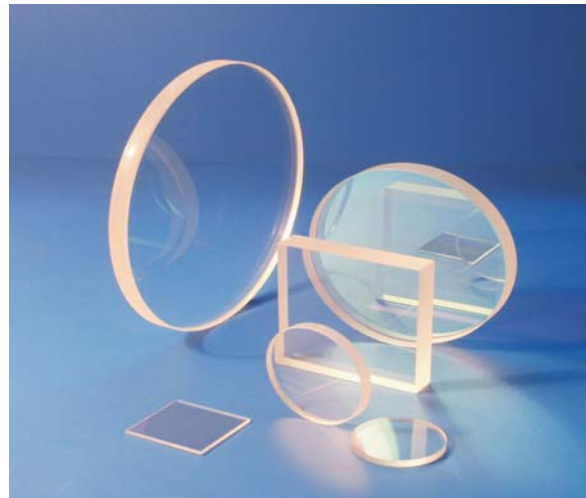
We provide artificially-crystallized calcium fluoride components available in IR grade and UV Grade. The cost of UV grade is much expensive than IR grade.

Dimensional tolerance: ± 0.1 mm
Surface quality: 60-40 S/D
Parallelism: 3 arcmin
Flatness: $\lambda/2$ @ 633nm
Protective bevel Protective bevel

Item #	Material	Diameter	Thickness
WIN03-12.7x2	CaF2, IR grade	$\varnothing 12.7$	2.0
WIN03-15.0x2	CaF2, IR grade	$\varnothing 15.0$	2.0
WIN03-25.4x2	CaF2, IR grade	$\varnothing 25.4$	2.0
WIN03-25.4x3	CaF2, IR grade	$\varnothing 25.4$	3.0
WIN03-30.0x3	CaF2, IR grade	$\varnothing 30.0$	3.0

Sapphire Windows

Dimensional tolerance: ± 0.1 mm
Surface quality: 80-50 S/D
Parallelism: 3 arcmin
Flatness: 1λ @ 633nm
Protective bevel Protective bevel



Item #	Material	Diameter	Thickness
WIN04-12.7x2	Sapphire	$\varnothing 12.7$	2.0
WIN04-15.0x2	Sapphire	$\varnothing 15.0$	2.0
WIN04-25.4x2	Sapphire	$\varnothing 25.4$	2.0
WIN04-25.4x3	Sapphire	$\varnothing 25.4$	3.0
WIN04-30.0x3	Sapphire	$\varnothing 30.0$	3.0

Price
on request

Volume
Discount

Custom
Design