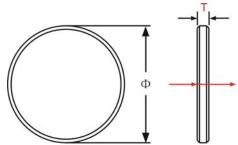
#### • Windows

Windows are applied to isolate different physical environments while allowing light to pass. When selecting windows, it's important to consider materials, transmission, scattering, wavefront distortion, parallelism and resistance to certain environment. WTS offers all kinds of windows, which are made from different materials. Windows of special sizes and materials are available upon requirement.

Single layer or multiplayer anti-reflecting or high-reflecting coating on optical windows are available upon customer's requirement.





Material	Properties	Application
N-BK7	Transmission range:330-2100nm	Good performance over visible and near IR
	Refractive index:1.5168@588nm	spectrum for most application.
	Transmission range:185-2500nm	Better performance from UV to IR
Fused Silica	Refractive index: 1.45847@589.3nm	spectrum.Also,it's the best choice for
	Low thermal expansion coefficient	resistance thermal application.
	Transmission range:180-4500nm	Suit for scratch resistance application with
Sapphire	Refractive index: 1.755@1000nm	better transmission.
	Strong hardness	
	Transmission range:170-7800nm	It is applicable for wide rang spectrumand it's
CaF2	Refractive index: 1.399@5000nm	particularly useful for IR laser application.
	Little hygroscopic susceptibility	
	High thermal expansion coefficient	
MgF2	Transmission range:120-7000nm	It is applicable for wide range spectrum, and it
	Refractive index: 1.376@700nm	is particularly useful for Excimer laser
		application.
Silicon	Transmission range: 1.2-100um	It is widely used in IR sensors, thermal image,
	Refractive index: 3.422@5um	medical, and optical measurement systems.
Germanium	Transmission range: 1.9-17um	Mainly are used in semiconductor etc IR
	Refractive index: 4.004@10um	optics.

#### Windows Materials Properties

Note: Other window materials: Pyrex, Float glass, B270, Borofloat, ZnSe ,etc.

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# • All Surfaces Polished Glass Cube

Our company offers the glass cube with all the surfaces polished by advanced polishing technic. The high surface quality as 20-10 (scratch –dig),flatness as better than lambda /10 are achievable.



### **Single Plate Window**

Specifications	Standard	High precision
Material	BK7, B270, Float Glass , CaF2, Ge, Si, Sapphire, Fused Silica, etc.	
Dimension Tolerance	+0.0, -0.15mm	+0.0, -0.05mm
Thickness Tolerance	±0.2mm	±0.05mm
Surface Quality	60-40 (scratch –dig)	20-10 (scratch –dig)
Flatness	λ/2 per 25mm @ 632.8nm	λ/10 per 25mm @ 632.8nm
Parallelism	<1 arc mins	<10 arc secs
Clear Aperture	>85%	>90%
Bevel	<0.25mmx45deg.	
Coating	Upon requirement	

# All Surfaces Polished Glass Cube

Specifications	Standard	High precision
Material	BK7, Fused Silica ,Sapphire, etc.	
Dimension Tolerance	+0.0, -0.10mm	+0.0, -0.02mm
Surface Quality	60-40 (scratch –dig)	20-10 (scratch –dig)
Flatness	λ/2 per 25mm @ 632.8nm	λ/10 per 25mm @ 632.8nm
Parallelism	<1 arc mins	<10 arc secs
Clear Aperture	>90%	>95%
Beve	<0.25mmx45deg.	No Bevel
Chip	<0.2mm	<0.05mm
Coating	Upon requirement	

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