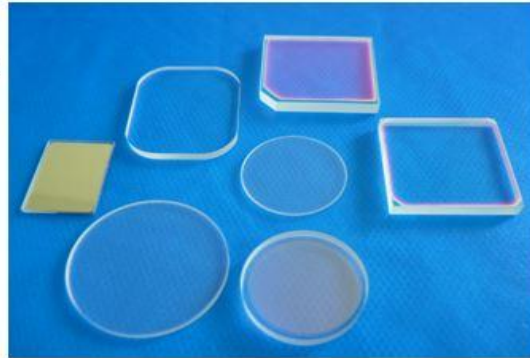




## Laser Optics

Laser, the acronym word for Light Amplification by Stimulated Emission of Radiation. It produce intense beams of light as monochromatic, coherent, and high collimated. The light of the laser is extremely pure when compare to other light source.

For the high precision of the laser parts, PhyO consider the substrate coating and material, we consider the scatter, absorption, stress, surface flatness and damage threshold. The Optical engineers make the design to make sure that the mechanical, optical, and environmental characteristics are suitable for the application.



### SPECIFICATION REFERENCE

Specification	Value
Material	UV Fused Silica, H-BK7, Calcite, Quartz
Size tolerance	0.00/-0.02
Surface flatness	L/10-L/20
Surface quality	20/10 to 10/5 S-D
Parallelism	≤ 5arcmin
Coating	P-,S-polarized coating as required
Damage Threshold	>10J/cm <sup>2</sup> 10nsec pulses, 10Hz PRF @1064 as required

### DIFFERENT TYPES OF LASER PARTS:

Brewster Fused Silica Polarizer  
 Polarizing Beamsplitter cubes  
 Thin film polarizer  
 Retardation Plates  
 Laser quality Mirror and  
 AR coated windows

