



Super Polishing (Ultra Smooth)



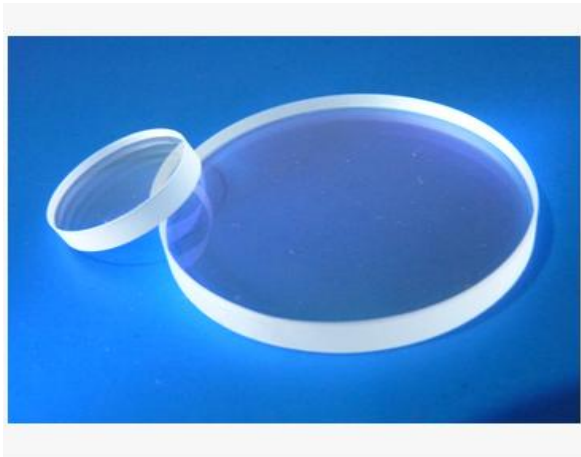
Super Polishing Substrate

Super Polishing, also known as Ultra-Smooth polishing of the optical surface, refers to the optical surface roughness $RMS < 0.2-0.5nm$ (2-5Angstrom), which still high in flatness and surface quality, intergration crystal structure of the surface as well. Due to the development of the X-ray optical system, Gyro system, High power laser, Laser Display,WDM industry,the super finishing optical components are highly demand.

Applications:

High power lasers, All-Solid-State Laser,Laser Display and Illumination, Inertial Navigation etc.

Specification	Product Drawing	Coating Curve	In Stock Information
Material	Fused Silica, Zerodur, Sitall etc		
Diameter	Customized		
Diameter Tolerance	+0.0/-0.1 to -0.05mm		
Thickness	> 6mm		
Thickness Tolerance	+/-0.1mm		
RMS Roughness	<0. 2-0.5nm (2-5 A°)		
Surface Flatness	L/10 to L/20		
Surface Quality	10-5 S/D		
Clear Aperture	>90%		



Super Polishing Coating

Once we get a low expansion of the material,and super finishing of the surface, one of the purpose is get a lowest scattering after the coating, to maintain the high accuracy and quality for the optical components, mostly apply the Mirror coating on the super finished substrate. Spherical mirrors still available.

