

Fused Silica is a synthetic amorphous silica glass of the highest purity and one of the most transparent glasses made.

The optical and thermal properties of fused silica are superior to other types of glass due to its purity. Its transmission and homogeneity exceed those of crystalline quartz without the problems of temperature instability inherent in the crystalline form.

Fused Silica has a coefficient of thermal expansion six times lower than Borosilicate glass, which means that as fused silica cools down, it preserves its shape to a high degree of accuracy. This translates into consistent optical performance and unchanging focus over temperature changes.

With high melting temperature ($\sim 1,600$ degrees Celsius), a very low coefficient of thermal expansion and resistance to thermal shock, fused silica is the material of choice for professional observatories as well as various scientific applications.