

Silica Glass

Key Features

Extreme heat resistance • Transparency • Smooth surface • High electrical resistivity

Applications

Prototyping • End-use parts • Aerospace • Electronics • Medicine, dentistry

Product Description

Silica glass is an isotropic material commonly seen as the glassy form of quartz. It is tough, hard, and expands slowly. Vitreous silica is the generic term that describes all forms of silica glass. The two major types of silica glass are; fused quartz and fused silica. Both materials allow transparent fusions from the sand. This material works well in electrical and thermal insulation due to its appealing electrical properties and high electrical resistivity.

Properties

Tensile strength	50 MPa
Bending strength	115 MPa
Thermal expansion	Near-zero ($0.52 \times 10^{-6} \text{ K}^{-1}$)
Heat deflection temperature	1000°C
Hardness	105D

Reference

We encourage users to verify the data's relevance and suitability for their specific needs.

