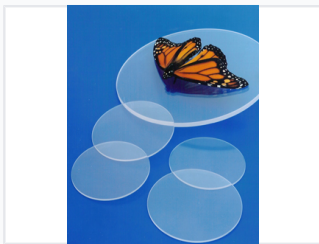


# Sapphire Optical Windows

These sapphire windows feature low distortion and scatter. They offer excellent parallelism for laser and non-laser applications.



## ADDITIONAL IMAGES



## Product Overview

### High-Performance Sapphire Windows

These sapphire optical windows are engineered from anisotropic synthetic sapphire crystal, offering unmatched hardness and durability for demanding industrial applications. With exceptional optical clarity and transmission across a broad spectrum, they are ideally suited for use in sensors, high-pressure cells, and precision laser systems. Their superior resistance to scratching, abrasion, and high temperatures ensures reliable performance in the harshest environments.

## Material Properties

Material	Anisotropic synthetic sapphire crystal (Al <sub>2</sub> O <sub>3</sub> )
Orientation	Random

## Dimensional Specifications

Diameter Tolerance	+0.0, -0.15mm
Thickness Tolerance	+/- 0.2mm
Clear Aperture	> 85% of diameter

## Optical Performance

Parallelism	3 arc minutes
Flatness	lambda per 25mm @ 632.8nm

## Quality Standards

Surface Quality	80-50 scratch and dig
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## Manufacturing Details

### Available Size Range

**3 mm**

Minimum Size

**120 mm**

Maximum Size

**Bevel**

0.25mm x 45deg