



KINTEK SOLUTION

Optical Material Catalog

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KINTEK SOLUTION

COMPANY PROFILE

>>> About Us

Kintek Solution Ltd is one technology orientated organization, team members are devoted to probing the most efficient and reliable technology and innovations in the scientific researching equipment, fields like biochemical reacting, new materials researching, heat treatment, vacuum creating, refrigerating, as well as pharmaceutical and petroleum extracting equipment.

In the past 20 years, we earned rich experiences in this researching equipment field, we are capable to supply both the equipment and solution according to customer's needs and realities, we have also developed lots of customer tailored equipment according to a specific working purpose, and we have lots of successful projects in many universities and institutes from different countries, like Asia, Europe, North and South America, Australia and New Zealand, Middle East, and Africa.

Profession, quick response, hard working, and sincerity is a remarkable label of our team members working attitude, which earn us a sound reputation among our clients.

We are here and ready to service our clients from different countries and regions, and share the most efficient and reliable technology together!



High Temperature Resistant Optical Quartz Glass Sheet

Item Number: KTOM-HTR



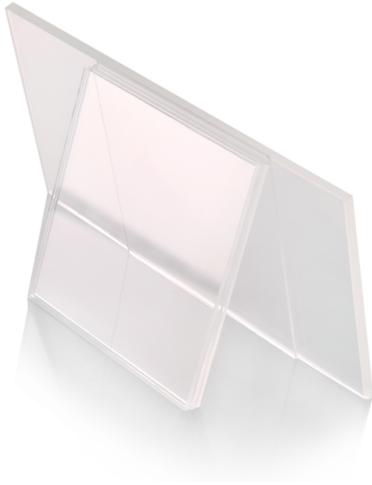
Introduction

Discover the power of optical glass sheets for precise light manipulation in telecommunications, astronomy, and beyond. Unlock advancements in optical technology with exceptional clarity and tailored refractive properties.

[Learn More](#)

Optical Quartz Plate Jgs1 / Jgs2 / Jgs3

Item Number: KTOM-OQP



Introduction

The quartz plate is a transparent, durable, and versatile component widely used in various industries. Made from high-purity quartz crystal, it exhibits excellent thermal and chemical resistance.

[Learn More](#)

| | |
|----------------------------|-----------------------------|
| Coefficient of Expansion | 5.54×10^{-7} (K-1) |
| Thermal conductivity(20°C) | 1.4W/m°C |
| Specific heat(20°C) | 660J/kg°C |
| Softening point | 1730°C |
| Annealing point | 1250°C |

Optical Ultra-Clear Glass Sheet For Laboratory K9 / B270 / Bk7

Item Number: KTOM-OGS



Introduction

Optical glass, while sharing many characteristics with other types of glass, is manufactured using specific chemicals that enhance properties crucial for optics applications.

[Learn More](#)

Infrared Transmission Coating Sapphire Sheet / Sapphire Substrate / Sapphire Window

Item Number: KTOM-ISS



Introduction

Crafted from sapphire, the substrate boasts unparalleled chemical, optical, and physical properties. Its remarkable resistance to thermal shocks, high temperatures, sand erosion, and water sets it apart.

[Learn More](#)

Float Soda-Lime Optical Glass For Laboratory

Item Number: KTOM-FSO



Introduction

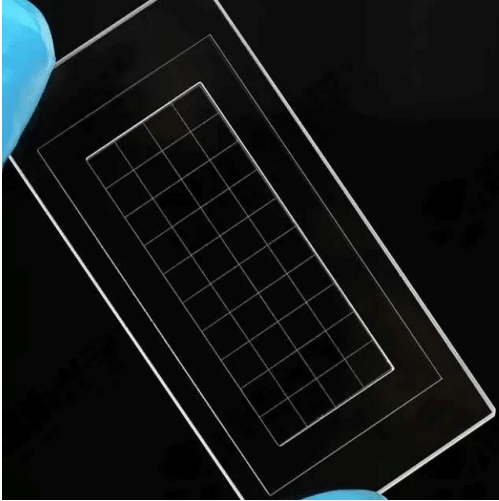
Soda-lime glass, widely favored as an insulating substrate for thin/thick film deposition, is created by floating molten glass on molten tin. This method ensures uniform thickness and exceptionally flat surfaces.

[Learn More](#)

| | |
|---|---|
| Thermal Conductivity | 0.937 W/mK |
| Density (at 20 °C/68 °F) | 2.44 g/cm ³ |
| Hardness (Moh's Scale) | 6 - 7 |
| Bulk Modulus | 4.3 x 10 ¹⁰ Pa |
| Optical Properties | Refractive Index (l=435): 1.523 (l=645)=1.513 |
| Electrical Properties Dielectric Constant | @ 20°C E= 7.75 |
| Specific Resistivity | 1000 Hz 25°C - log R ohms/cm: 9.7 |

Zooplankton / Plankton Counting Chamber For Plankton Eggs And Ascaris Eggs

Item Number: KTOM-PAE



Introduction

Zooplankton counting chambers, made of methacrylate, have precision-machined grooves with polished bases for transparent and efficient zooplankton counting.

[Learn More](#)

Single And Double-Sided Coated Glass Sheet/K9 Quartz Sheet

Item Number: KTOM-CGS



Introduction

K9 glass, also known as K9 crystal, is a type of optical borosilicate crown glass renowned for its exceptional optical properties.

[Learn More](#)

| | |
|---------------------|-----------------------|
| Density | 2.55g/cm ³ |
| Specific Heat | 879J/kg.°C |
| Index of Refraction | 1.5230 |
| Abbe Number | 58.3 |

Barium Fluoride (BaF2) Substrate / Window

Item Number: KTOM-BFS



Introduction

BaF2 is the fastest scintillator, sought-after for its exceptional properties. Its windows and plates are valuable for VUV and infrared spectroscopy.

[Learn More](#)

| | |
|--------------------------------------|-----------------------------------|
| Transmission range (μm) | 0.15~12.5 |
| Transmittance | ≥90% [0.35~9μm, 3mm] |
| Reflection Loss at 2.58μm | 6.8%(both faces) |
| Knoop hardness (kg/mm ²) | 82 with 500g indenter |
| Density (g/cm ³) | 4.89 |
| Melting Point (°C) | 1280 |
| Round Shape | Φ5.0; Φ10.0 ; Φ12.7; Φ15.0; Φ20.0 |
| Diameter(mm) | Φ25.4; Φ30.0; Φ38.1; Φ50.8; Φ76.2 |
| Square Shape | 5.0x5.0 ; 10.0x10.0 ; 15.0x15.0 |
| WxH(mm) | 20.0x20.0; 25.0x25.0; 50.0x50.0 |

Caf2 Substrate / Window / Lens

Item Number: KTOM-CFW



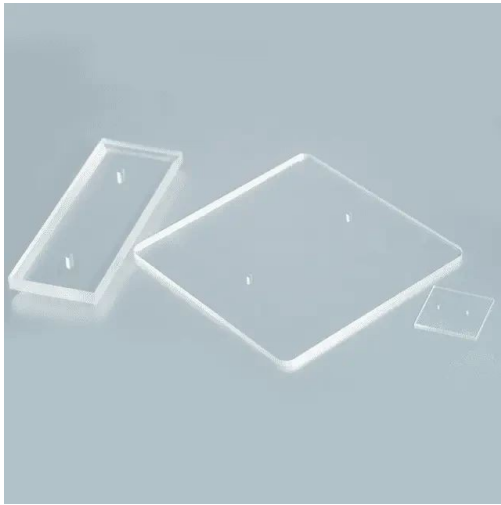
Introduction

A CaF₂ window is an optical window made of crystalline calcium fluoride. These windows are versatile, environmentally stable and resistant to laser damage, and they exhibit a high, stable transmission from 200 nm to about 7 μm.

[Learn More](#)

Mgf2 Magnesium Fluoride Crystal Substrate / Window

Item Number: KTOM-MFS



Introduction

Magnesium fluoride (MgF₂) is a tetragonal crystal that exhibits anisotropy, making it imperative to treat it as a single crystal when engaging in precision imaging and signal transmission.

[Learn More](#)

| | |
|------------------------|--|
| Substrate | Magnesium Fluoride (MgF ₂) |
| Surface Quality | 40-20 |
| Wavelength Range (nm) | 120 - 7000 |
| Index of Refraction nd | 1.377 |

Narrow Band Filters / Band Pass Filters

Item Number: KTOM-NBF



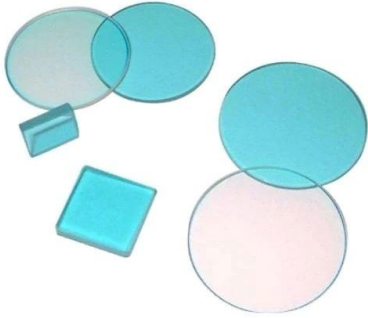
Introduction

A narrow bandpass filter is an expertly engineered optical filter specifically designed to isolate a narrow range of wavelengths while effectively rejecting all other wavelengths of light.

[Learn More](#)

Longpass / Highpass Filters

Item Number: KTOM-LHF



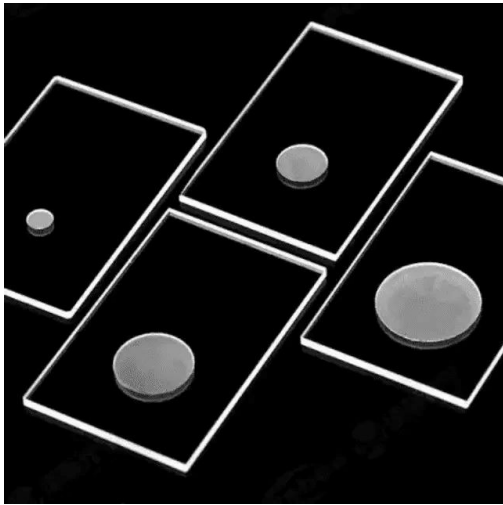
Introduction

Longpass filters are used to transmit light longer than the cutoff wavelength and shield light shorter than the cutoff wavelength by absorption or reflection.

[Learn More](#)

Xrd Sample Holder / X-Ray Diffractometer Powder Slide

Item Number: KTOM-XRD



Introduction

X-ray powder diffraction (XRD) is a rapid technique for identifying crystalline materials and determining their unit cell dimensions.

[Learn More](#)

Shortpass / Shortpass Filters

Item Number: KTOM-SLS



Introduction

Shortpass filters are specifically designed to transmit light with wavelengths shorter than the cutoff wavelength, while blocking longer wavelengths.

[Learn More](#)

Zinc Selenide [Znse] Window / Substrate / Optical Lens

Item Number: KTOM-ZSW



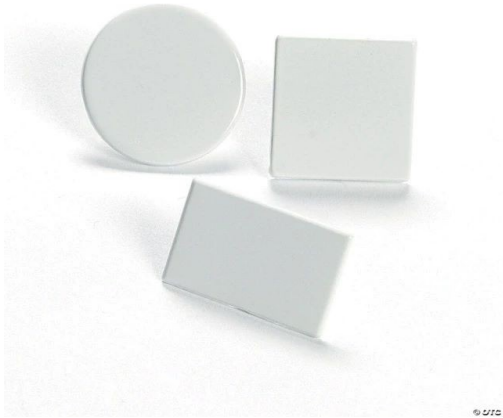
Introduction

Zinc selenide is formed by synthesizing zinc vapor with H₂Se gas, resulting in sheet-like deposits on graphite susceptors.

[Learn More](#)

Infrared Silicon / High Resistance Silicon / Single Crystal Silicon Lens

Item Number: KTOM-HBS



Introduction

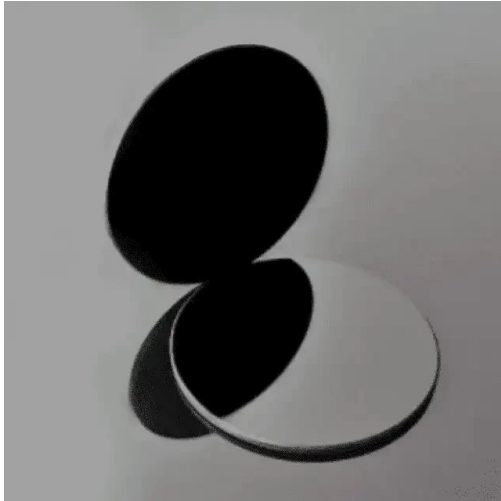
Silicon (Si) is widely regarded as one of the most durable mineral and optical materials for applications in the near-infrared (NIR) range, approximately 1 μm to 6 μm .

[Learn More](#)

| | |
|----------------------------------|--|
| Material | Single crystal of Silicon(Si) |
| Crystal structure | Face-centred Cubic |
| Applicable wave band | 1.2 μm ~ 8 μm |
| Refractive index | 3.4223 @5 μm |
| Thermal conductivity | 273.3 W/mK |
| Coefficient of thermal expansion | 2.6 $\times 10^{-6}/^{\circ}\text{C}$ at 20 $^{\circ}\text{C}$ |

Infrared Thermal Imaging / Infrared Temperature Measurement Double-Sided Coated Germanium (Ge) Lens

Item Number: KTOM-CGL



Introduction

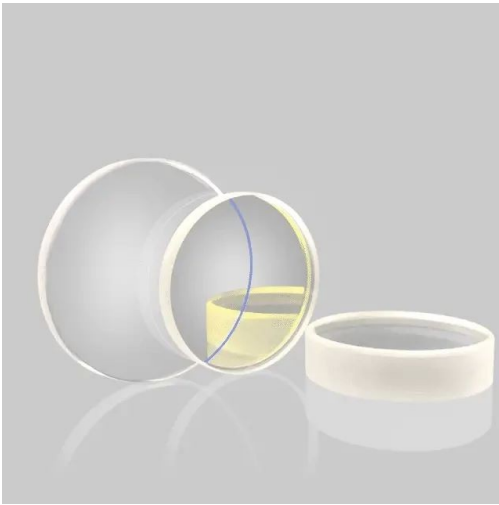
Germanium lenses are durable, corrosion-resistant optical lenses suited for harsh environments and applications exposed to the elements.

[Learn More](#)

| | |
|-----------------------|------------------------|
| Density | 5.33 g/cm ³ |
| Melting Point | Face-centred Cubic |
| Refractive Index | 4.002 @ 11μm |
| Operating Temperature | |

Zinc Sulfide (Zns) Window

Item Number: KTOM-ZSS



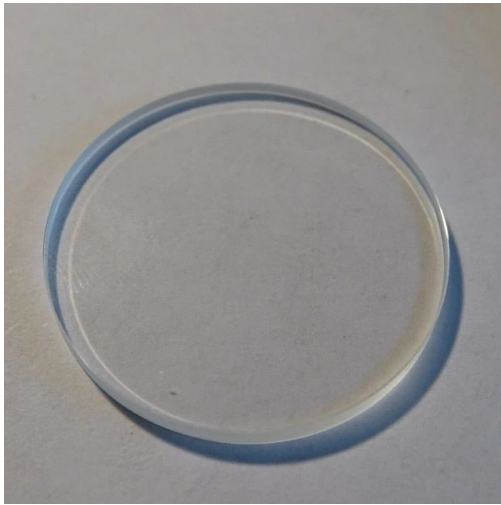
Introduction

Optics Zinc Sulphide (ZnS) Windows have an excellent IR transmission range between 8-14 microns. Excellent mechanical strength and chemical inertness for harsh environments (harder than ZnSe Windows)

[Learn More](#)

400-700Nm Wavelength Anti Reflective / Ar Coating Glass

Item Number: KTOM-ARG



Introduction

AR coatings are applied on optical surfaces to reduce reflection. They can be a single layer or multiple layers that are designed to minimize reflected light through destructive interference.

[Learn More](#)

Alkali-Free / Boro-Aluminosilicate Glass

Item Number: KTOM-ABG



Introduction

Boroaluminosilicate glass is highly resistant to thermal expansion, making it suitable for applications that require resistance to temperature changes, such as laboratory glassware and cooking utensils.

[Learn More](#)



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