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Title: Prague Germanium solar Glass

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What is germanium glass?

Germanium glass is what is called a high-density IR-transmitting material that blocks UV and VIS wavelengths. Germanium lets light in the wavelengths between 8000-14000 nanometers (the infrared spectrum) pass through and basically blocks all other light.

Is germanium a good material?

Germanium is inert to air, water, alkalis and many acids, which makes it a robust, versatile material. Firebird provides these in several uncoated stock configurations in circular and rectangular shapes but can provide them customized and coated to your specifications.

Is germanium a good IR lens?

The Knoop Hardness of Germanium (780) is approximately twice that of Magnesium Fluoride, making it ideal for IR applications requiring rugged optics. Germanium's high density (5.33 g/cm<sup>3</sup>) should be considered when designing for weight-sensitive systems. Custom germanium windows and germanium lenses are available in any size and configuration.

Why is germanium used in infrared lasers?

By using germanium, extraneous light is sorted out and thus the infrared images become unambiguous. Infrared lasers are also a field where germanium glass is used. Infrared lasers best from the military, who use it for targeting. However, infrared lasers are also used for many civilian purposes in both medicine and industry.

We report on Germanium on Glass solar cells realized by wafer bonding, layer splitting and epitaxial regrowth. We provide a detailed description of the layer transfer process and discuss ...

Germanium (Ge) Windows with excellent transmission across 2-14 um waveband and can be used in both mid-wave infrared (IR) and long wave IR systems.

Our Germanium windows, wedges and lenses are widely used in IR sensors, LIDARs, thermal image and medical applications, in pyrometry and thermography, IR cameras all over the world.

We fabricate germanium components, including optical lenses, prisms, and optical filters, with extremely high precision, ensuring exceptional performance in a wide range of infrared optical ...

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Germanium optics work based on the unique properties of germanium, a semiconductor material. Germanium has a high refractive index and excellent transmission in the infrared region, ...

Germanium (Ge) is a relatively hard, high-density, IR transmitting material that blocks UV and VIS wavelengths but allows IR from 2um. Germanium ...

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By integrating PV glass into 60% of the facade, the structure now generates 300 MWh annually - enough to power 80 households. "This proves that sustainability and modern design can ...

Tell us what the requirements are for the glass, what size (height, width, thickness), what quantity we are talking about and what the glass should ...

Germanium (Ge) is a relatively hard, high-density, IR transmitting material that blocks UV and VIS wavelengths but allows IR from 2um. Germanium covers the whole of the 8-14 micron thermal ...

What Are Germanium Windows?Key Features and AdvantagesApplications of Germanium WindowsAdditional Applications of Germanium WindowsGermanium windows are optical components designed to transmit infrared light with minimal signal loss. Their high refractive index reduces internal reflection, ensuring superior light throughput and reliable performance. They are crafted from germanium, a high-index material with excellent IR transmission properties from ...See more on firebirdoptics Offer Count: 11Price Range: \$455 - \$1,435latticematerials

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