

INDUSTRIAL GLASS

CATEGORY INFORMATION

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PHILLIPS SAFETY
PRODUCTS INC.



Phillips Safety is the industry leader in occupational safety eyewear. In business for over 100 years, you are being served with the dedication and craftsmanship of a family owned company.

Phillips Safety has been producing occupational safety glasses since 1905 and continues to develop and produce the highest quality glasses and lenses today. A leading manufacturer of specialty safety eyewear in the United States, Phillips Safety adheres to strict ANSI Z87-2+ and EN 207 CE standard certifications, holding itself to a highest standard and prides itself on producing glasses with the finest quality materials available.

All safety glasses produced and sold by Phillips Safety meet strict industry standards for military, medical, research laboratories, and a variety of other industries.

With Phillips Safety's dedicated team, you can rest assured knowing that all your prescription safety needs are met.

CATEGORY INFORMATION

INDUSTRIAL GLASS

Phillips Safety's collection of industrial glass stands as a testament to versatility, durability, and precision engineering. Industrial glass, a transparent solid material, finds its application across a multitude of industries, from laboratory equipment to commercial power generators, radiation detectors, and beyond.

With a diverse array of glass types available, each boasting distinct properties tailored to specific needs, Phillips Safety ensures that every application is met with optimal performance. Among these offerings is borosilicate glass, renowned for its high-strength composition, environmental friendliness, and resistance to chemical reactions. Commonly utilized in aerospace and food and beverage processing, borosilicate glass undergoes rigorous tempering and chemical strengthening processes to enhance its thermal shock resistance and durability.



CATEGORY INFORMATION

INDUSTRIAL GLASS



Laminated glass, another cornerstone of industrial applications, offers a myriad of features crucial to the construction industry, including sound control, hurricane impact-resistance, safety, and security. Phillips Safety also provides a range of specialized glasses, from patterned glass fabrication to custom glass ceramics, meticulously crafted to meet the unique demands of various industries, including automotive, architectural, medical, and optical.

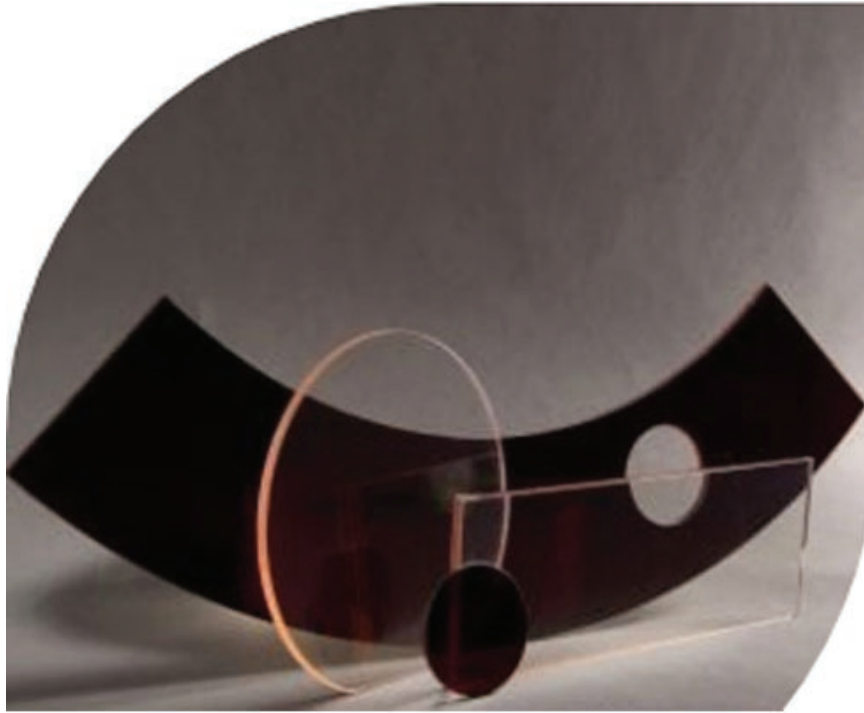
Whether it's for automotive headlamps, computer monitors, or optics, the transparency, durability, and aesthetic appeal of industrial glass make it an indispensable component of modern life. Phillips Safety's commitment to precision and innovation ensures that each glass product meets the stringent performance specifications required for its intended application, guaranteeing reliability and longevity in every use case.

CATEGORY INFORMATION
INDUSTRIAL GLASS

A large, stylized letter 'P' in a dark teal color serves as a background for the right side of the page. The 'P' is composed of thick, rounded strokes, with a central circle and a vertical stem that curves at the bottom.

**PHILLIPS SAFETY
CUSTOM INDUSTRIAL
GLASS**

PRODUCT INFORMATION
CUSTOM GLASS CERAMIC



Glass ceramic is often recommended for applications that require extreme heat capabilities and UV blocking traits as well as virtually zero thermal expansion. Due to its extremely low thermal expansion, it can be subjected to extreme temperature differences. In high temperature conditions, it retains excellent form stability. Glass ceramic can be further developed with all of the normal methods of glass processing.

Glass ceramic has the fabrication advantage of glass as well as unique ceramics properties. It has properties such as zero porosity, high strength, toughness, translucency or opacity, pigmentation, machine-ability, and high chemical durability. Glass ceramic can be made from 3mm-5mm thick.

Many industries using Glass Ceramic include:

Chemical process sight glass; High temperature vision windows; Heat insulators; Outdoor lighting; Commercial ovens; UV blocking applications; Wood stove manufacturers

SPECIFICATION

Glass Type: Custom, Ceramic

Thickness: 3mm-5mm

Features: Zero porosity, High strength, Toughness, Translucency or Opacity, Pigmentation, Machine-ability, High Chemical durability.

Application: Chemical process sight glass; High temperature vision windows; Heat insulators; Outdoor lighting; Commercial ovens; UV blocking applications; Wood stove manufacturers.

PRODUCT INFORMATION
LAMINATED GLASS



Laminated glass has the quality of holding together when shattered. In the event of breaking, it is held in place by an interlayer, between its two or more layers of glass.

Widely used as a safety glass, laminated glass is created by combining one or more layers of PVB through heating and pressing processes. It is ideal for blast-resistant windshields, armored vehicle glass, and machining equipment viewing windows.

Laminated glass can be fabricated to specifications as required. It can be cut and machined to radius and hole patterns as indicated by your drawing. It is available in standard thicknesses of 1/4, 3/8, and 1/2 inch. We can also supply larger sizes if required. Please feel free to send us your requirement for quoting.

Laminated Glass features include: Good sound insulation; High safety performance; Ultraviolet radiation prevention; Sun filtering; Water pressure resistant; Blast-resistant.

SPECIFICATION

Glass Type: Custom, Industrial, Quartz, Laminated, Borosilicate, Ceramic

Features: UV Blocker, High Temperature, Heat Insulation, LED, Semiconductor, Blast Resistant, Water Pressure Resistant

Surface: Flat, Pattern

Application: Medical, Lighting, Diffusion, Specialty Lenses, Commercial, Laboratory, Telecommunications, Solar, CNC

PRODUCT INFORMATION

BOROSILICATE GLASS



Borosilicate glass is typically specified for applications that require glass with unique chemical, thermal, mechanical and optical properties. When glass must be able to withstand higher temperatures, resist chemicals, and withstand a high degree of thermal shock, borosilicate glass is a dependable selection.

Borosilicate is the preferred glass material for a variety of applications requiring heat and shatter resistance. Composed of silica and at least 5% boron oxide, products manufactured with borosilicate are perfect for reduced breakage and chemical resistance.

Borosilicate glass is commonly found in the following industries: Lighting glass; Chemical; Home appliance; Photovoltaic & solar; Precision engineering optics; Medical; Biotechnology; Semiconductor engineering

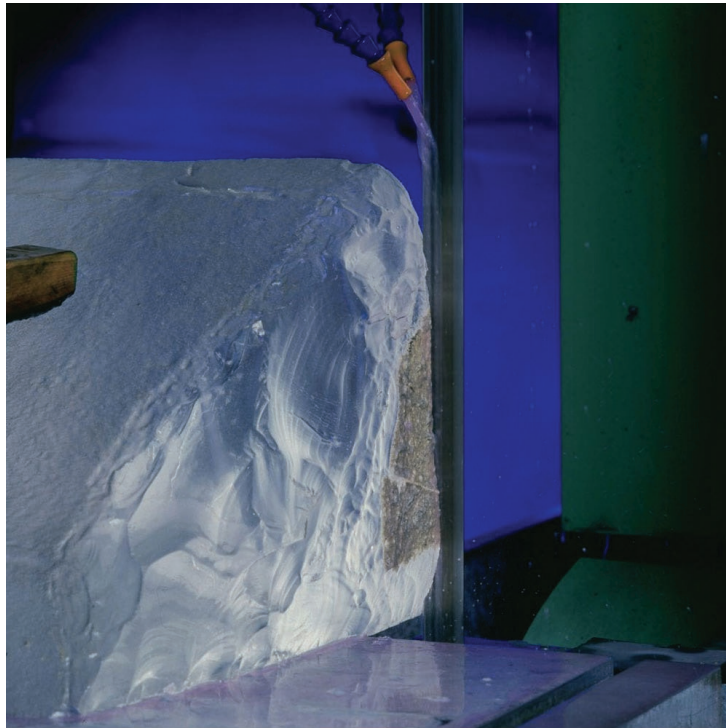
SPECIFICATION

Glass Type: Custom, Borosilicate

Application: Lighting glass, Chemical, Home appliance, Photovoltaic & Solar, Precision engineering optics, Medical, Biotechnology, Semiconductor engineering

PRODUCT INFORMATION

FUSED QUARTZ SILICA GLASS



Fused quartz is a glass that can tolerate extreme temperature ranges and provide thermal shock resistance. It differs from other glasses in the fact that no additional ingredients are required to lower the melt temperature, giving it much higher working and melting temperatures.

Fused quartz is developed by melting crystalline silica in sand or stone form. Often used in the same applications as fused silica, it has a significantly lower OH content. Fused quartz possesses a high degree of purity, high chemical resistance, good thermal shock resistance, and low thermal expansion coefficient.

Fused Quartz transmits ultraviolet very well, making it useful for lenses and optics for the ultraviolet spectrum. Its low coefficient of thermal expansion also makes it an ideal glass for precision mirror substrates. Fused Quartz is available up to 6" thick.

Many industries using fused quartz include: Specialty lighting; Laboratory; LED; Photovoltaic/solar; Telecommunications; Semiconductor engineering.

SPECIFICATION

Glass Type: Quartz

Features: High degree of purity, High chemical resistance, Good thermal shock resistance, Low thermal expansion coefficient

Application: Specialty lighting, Laboratory, LED, Photovoltaic/solar, Telecommunications, Semiconductor engineering

PRODUCT INFORMATION

CUSTOM FABRICATED GLASS

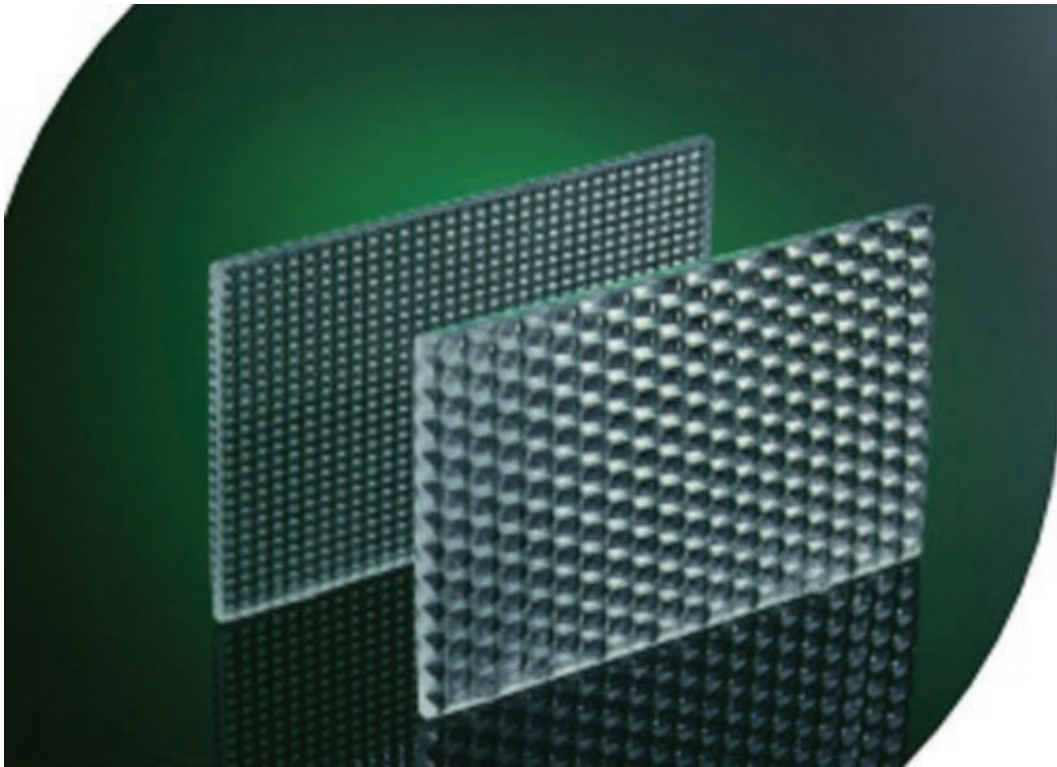


The fabricated glass offers our clients a broad range of glass sizes. Specialty features include UV blocking and infrared reflecting heat shield. Our complete list of processes includes surface and O.D. grinding, O.D. polishing, drilling, heat sawing, surface polishing, tempering, heat strengthening, CNC machining, waterjet cutting, coatings, and sandblasting. Our fabricated glass solutions have allowed plants and businesses to increase efficiency, reduced downtime, and maximize productivity.

SPECIFICATION

Glass Type: Custom, Industrial, Quartz, Laminated, Borosilicate, Ceramic

PRODUCT INFORMATION
PATTERNED GLASS FABRICATION



Pattern glass creates visual interest and varying levels of opacity by creating a subtle shifting of light, which makes pattern glass the ideal choice for a wide range of applications. The process of fabricating pattern glass involves pressing semi-molten glass between metal rollers or with a single roller and a calendering table to provide a distinct look.

Many pattern glass applications include: Lighting; Diffusion; Specialty lenses.

SPECIFICATION

Glass Type: Custom

Application: Lighting, Diffusion, Specialty lenses

CONTACT

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