



Quartz Disc

Product Catalogue

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Working

The fused quartz glass disc has an overall purity level of 99.99% and is composed of SiO_2 . It is a laser-cut product as per the dimensions. It also grinds well to smoothen the cut surface, which avoids the sharpness of the corner surface. Made from superior purity quartz sand & crystal flour and melted into quartz lump in a high-temperature furnace.

■ Product Series – Quartz-Disc

Thermal Properties:

- Thermal Conductivity - 1.38(W/M °K)
- Coefficient Of Thermal Expansion - 0.55(106/°C)
- Normal Operating Temperature (Continuous Usage) - 1050 °C
- Normal Operating Temperature (Non-Continuous Usage) - 1250 °C
- Strain Point – 1075 °C
- Annealing Point - 1180 °C
- Hot Processing Temperature - 1700 – 2100 °C
- Devitrification Temperature - Starting @ 1000 °C

Specifications:

- Density - 2.2 gm/cc (lb/ft³)
- Surface Roughness - < 5 nm
- Porosity – 0%
- Hardness – 600 Kg/mm²
- Thermal Conductivity - 1.38 W/m °K
- Coefficient of Thermal Expansion - 0.55 10⁻⁶/ °C
- Specific Heat – 740 J/kg. °k
- Dielectric Strength - 30 Ac-kV/mm (volts/mil)
- Dielectric Constant - 3.82 (@1MHz)

Size Variant

Diameter : 25mm | 50mm | 75mm | 100mm

Thickness : 1mm | 2mm | 5mm

■ Important Note:

Customization can be provided as per size or specifications.

Applications

- Aviation technology
- Laser technology
- Semiconductor industry
- Optical window manufacturing
- Infrared heater industry
- Corrosive gas/liquid filtration process
- Heat diffusion
- Flow regulation

How to use ?

Storage And Stability:

This product should be stored at room temperature and pressure, and its stability is indefinite. It should be placed in a clean environment.

Precautions and Disclaimer:

These products are for R&D and industrial use, not for drug, household, personal, or other uses.

Packaging:

It is supplied in bundles with highly-protective layers between individual discs within a light-protected, moisture-free, specially manufactured paper sheet.



Handling

- When handling the disc, the researcher should use powder-free non-latex gloves, which should be held carefully.
- While experimenting, if researched using a substrate with bare hands, the chances of contamination of coated surface due to finger oil are very high. Therefore, it is advised to use nylon or polyester gloves.
- Each disc is well packed in moisture-free paper, so they should not rub each other.



Feel Free to Reach Us

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