TECHINSTRO®
Vision Beyond Technology

Quartz Glass Plate

Product Catalogue

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Quartz is a material that is abundantly present in the earth crust. It majorly used for high-temperature applications. A research and optical grade quartz glass plate popularly used in manufacturing boats, wafers, pedestals, and wafer carriers. Quartz plate is an essential component of various equipment and machinery in numerous industries where suitable quality semiconductors are imperative.

Product Series – TIQP

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

Physical Properties :

- Density - 2.2 gm/cc (ib/ft^3)
- Surface Roughness - < 5 nm
- Porosity – 0%
- Hardness – 600 Kg/mm^2
- 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 : 25 x 25mm | 50 x 25mm | 50 x 50mm | 75 x 25mm | 100 x 100mm

Important Note:

Customization can be provided as per size or specifications.

Applications

- Single-wafer processing equipment
- Wet cleaning process (used for making tanks)
- FPD (Flat Panel Display) Manufacturing
- Lamp covers
- Gas flow regulation
- Gas distribution
- Analytical filtration
- Liquid filtration
- Watches

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 slides within a light-protected, moisture-free, specially manufactured paper sheet.

Handling

- When handling slides, 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 slide is well packed in moisture-free paper, so they should not rub each other.

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