



Quartz Crucible

Product Catalogue

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Working

The QC (Quartz-Crucible) of high-purity Silica (SiO_2) material is a transparent container resistant to extremely high temperatures and chemically inert to get non-contaminated results. These vessels should also be ideally resilient to thermal shocks. There are two types of crucibles, one with a lid and another without a lid.

The QC (Quartz-Crucible) acts as a vessel for holding chemicals as the specific thermal or chemical process is performed. These are efficient for use as laboratory crucibles as well as in industrial applications.

■ **Product Series – CRUCIBLE-LID & CRUCIBLE-NOLID**

Thermal Properties:

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

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 : 15ml | 25ml | 50ml | 80ml | 100ml | 150ml | 200ml | 250ml
500ml | 1000ml

■ Important Note:

Customization can be provided as per capacity, specifications, and quantity.

Applications

- Refining precious metals and special alloys
- Smelting industry
- Lamp-manufacturing sector
- Alumina calcinations
- Various chemical industrial applications
- R & D laboratory uses
- Educational Institutes
- Rare earth production

Storage And Stability:

This product 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 crucibles within a light-protected, moisture-free, specially manufactured paper sheet.

Pack Size:

1, 5, 10, 25, & 50 pieces per pack



Handling

- When handling crucibles, 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 due to finger oil are very high. Therefore, it is advised to use nylon or polyester gloves.
- Each crucible is well packed in moisture-free paper, so they should not rub each other.



Feel Free to Reach Us

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