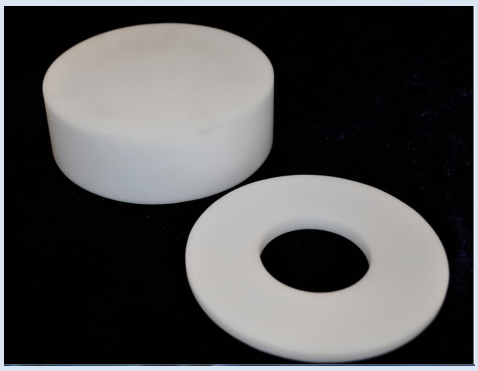
# Opaque quartz ingot



## Application

**Sinter , Electrical heater , Solar ,**

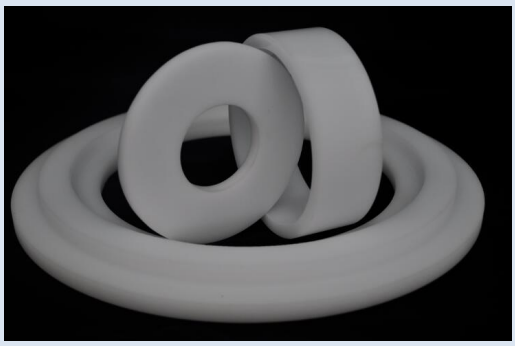
**Heat Insulation**

## Characteristic

**High puirty , Thermal Stability , Erosion Resistance , Insulativity**

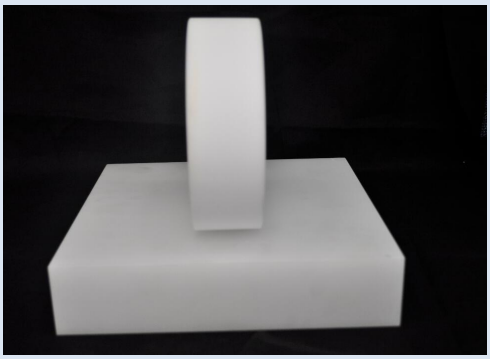
JNM Quartz could supply two solution to our customer to produce the opaque quartz ingot

## NC-W00



The unique technology (NC-W00 seriers) is from JNC to produce the opaque ingot, then cut to many kind plates which is required by the customers.NC-W00 is an opaque high purity quartz glass. Evenly distributed, micron-sized pores yield excellent diffuse reflection and low transmission from UV to IR radiation.Heat radiation is efficiently blocked by only a few mm of NC-W00 bulk material.

The material density of NC-W00 is very close to the density of clear fused quartz. The unique microstructure results in a very smooth surface finish after flame polishing. Therefore, flame polished NC-W00 offers good sealing properties. Although the durability of NC-W00 is improved compared to other opaque material when exposed to HF acid.



NC-W00 features the typical viscosity and thermal pro-perties of high purity quartz glass. Due to its high density NC-W00 can be easily welded to clear fused quartz with excellent welding seam quality. The mechanical strength is almost equivalent to clear fused quartz and superior to most competing materials.

The Max opaque quartz ingot (NC-W00) OD900mm*H600mm

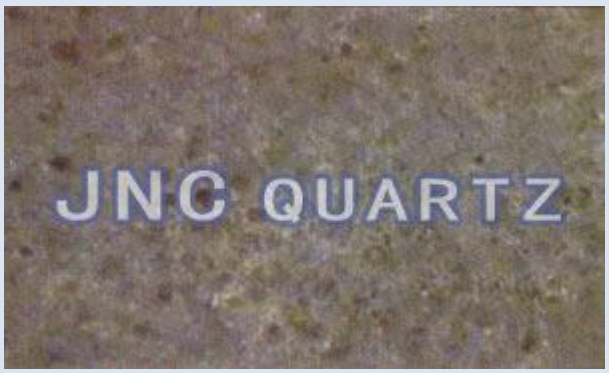
## NC-W11

Bassed on the NC-W00 technology, JNC Quartz imporve the technology to independent development new product(NC-W11),The hydroxyl content is low.

## Chemical element composition (Typical) ppm

| | Al | Fe | Ca | Mg | Ti | Ni | Mn | Cu | Li | Na | K | B | Co | OH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NC-W00 | 25 | 0.5 | 0.8 | 0.1 | ---- | 0.06 | 1.17 | 0.1 | 0.3 | 2.2 | 1.6 | 0.31 | 0.01 | ---- |
| NC-W11 | 9.3 | 0.36 | 0.01 | 0.13 | 0.54 | 0.05 | 0.09 | 0.01 | 1.09 | 0.36 | 0.4 | 0.04 | 0.01 | <1 |

## The density by the microscope of NC-W00




| Transmission |
|---|

| Wave Length(nm) | 400nm | 500nm | 600nm | 700nm |
|---|---|---|---|---|
| Transmission | 1.00% | 1.20% | 1.20% | 1.20% |