

Opaque quartz ingot

Application

**Sinter , Electrical heater , Solar ,
Heat Insulation**

Characteristic

High purity , Thermal Stability , Erosion Resistance , Insulativity

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

NC-W00

The unique technology (NC-W00 series) 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.

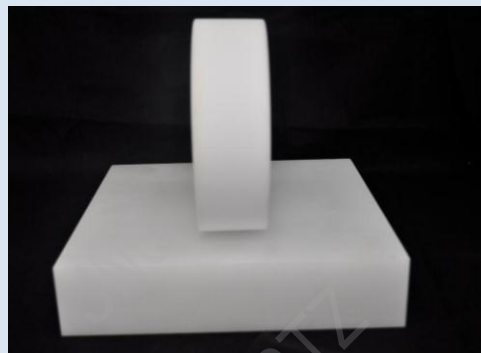
NC-W00 features the typical viscosity and thermal properties of high purity quartz glass.

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



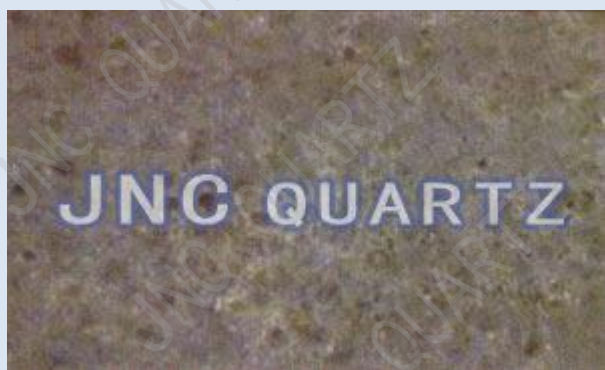
NC-W11

Based on the NC-W00 technology, JNC Quartz improve 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%