Quartz Plate

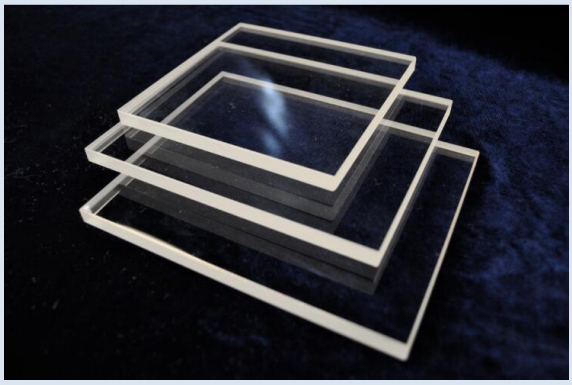
Applications

Semiconduct Window LED

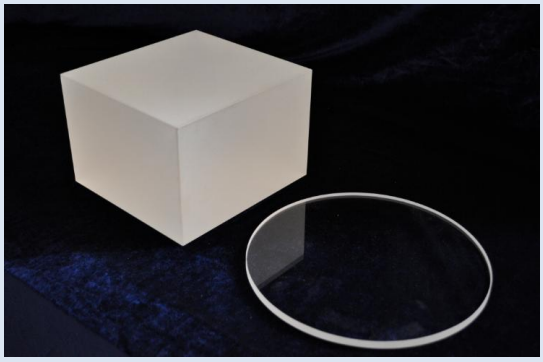
Characteristics

Temperature stability, Heat shock resistance,

Low thermal expansion, Corrosion resistant



JNM Fused quartz plates and discs are widely used throughout a variety of industrial applications.
Due to the unique properties of quartz it is ideally suited to applications that require a combination of chemical resistance, high temperature stability and high thermal shock resistance paired with low thermal expansion.



Transparent quartz glass plates are divided into two larger groups: flame fused and electrically fused. In each group a variety of grades is available, each with individual advantages for specific applications.

NC-H00

Electrically fused method,producing the ingot with ingot with the low hydroxyl content by vacuum method, it has good transmission during ultrared zone, Now the Max plate size 700*700*T<5mm

NC-200

Using flaming method to produce round ingot, Flame fused ingot are re-heated to make many shapped plate.

The plate size NC-200 seriers

Transparent square plate(polishing)

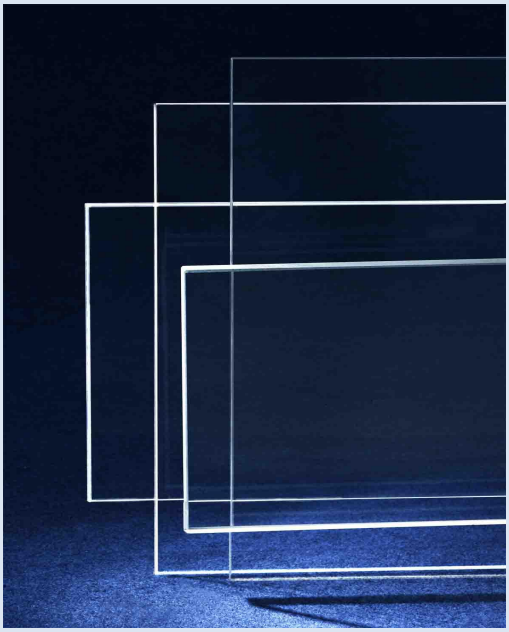
OD2*T>0.5mm ~ OD1200*T>5mm

Transparent square plate(polishing)

L10*W10*T>0.5mm ~ L1200*W1200*T>5mm

Transparent square plate(raw material)

Max size: L1400*W1400*T>5mm



Tranparent quartz glass property

Property	NC-200	NC-210	NC-H00
Density	$2.21\times10^3kg/m^3$	$2.21\times10^3kg/m^3$	$2.21\times10^3kg/m^3$
Hardness	$580KHN_{100}$	$580KHN_{100}$	$580KHN_{100}$
Tensile Strength	$4.9\times10^7Pa(N/m^2)$	$4.9\times10^7Pa(N/m^2)$	$4.9\times10^7Pa(N/m^2)$
Compression Strength	$>1.1\times10^9Pa$	$>1.1\times10^9Pa$	$>1.1\times10^9Pa$
Cofficient of Thermal Expansion(20-300℃)	$5.5\times10^{-7}cm/cm℃$	$5.5\times10^{-7}cm/cm℃$	$5.5\times10^{-7}cm/cm℃$
Thermal Conductivity(20℃)	1.4W/m℃	1.4W/m℃	1.4W/m℃
Specific Heat	680J/kg℃	690J/kg℃	700J/kg℃
Softening Point	1700℃	1750℃	1760℃
Annealing Point	1210℃	1250℃	1260℃

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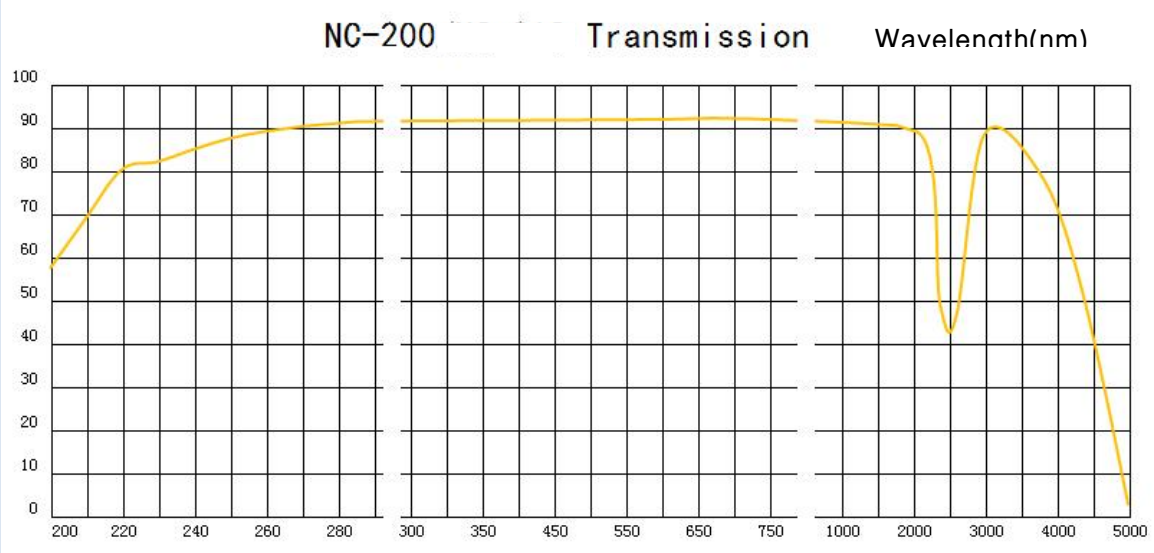
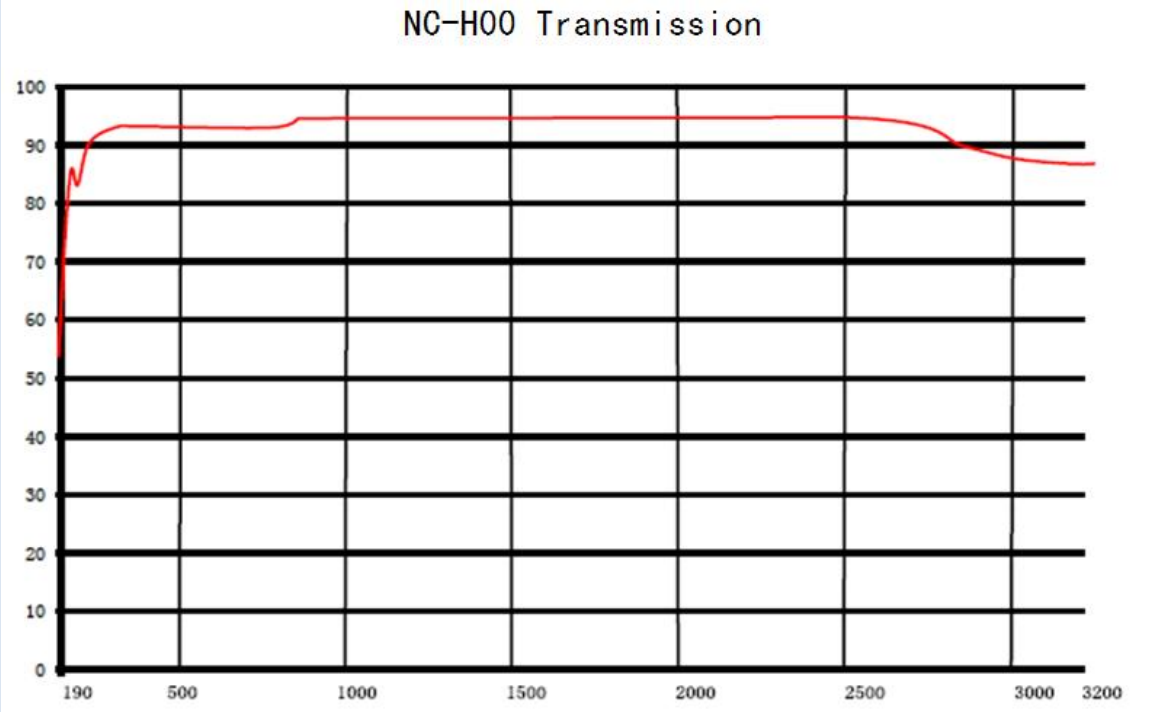
Chemical element composition (Tyical data) ppm

	Al	Fe	K	Li	Cu	Na	B	Ca	Mg	P	Ti	OH
NC-200	20	0.4	1	1.4	0.01	1.5	0.2	0.5	---	---	---	120-260
NC-210	15	0.2	0.6	0.4	0.02	0.8	0.1	0.4	0.05	0.06	1.2	120-260
NC-H00	8	0.2	0.2	0.1	0.01	0.4	----	0.6	0.01	----	1.9	<5




NC-H00 Transmission
100
90
80
70
60
50
40
30
20
10
0
190
500
1000
1500
2000
2500
3000
3200