# 3H<sub>glass</sub> Handan Honest High-tech Glass Co.,Ltd

# Specification of Flat Borosilicate Glass 3.3

Borosilicate float glass is produced by the technology of float glass production.

Main ingredients of this float glass are sodium oxide, Na2O, boron oxide (B2O3), silicon dioxideSiO2.

boron: 12.5~13.5%, silicon 78~80%. In those ingredients, boron and silicon have high content.

In this case, this special glass is called borosilicate float glass.

The feature of this glass is that it has small thermal expansion coefficient, good thermal stability, chemical durability and electrical property. Therefore, it's chemical resistant, heat resistant and mechanical property is excellent.

So borosilicate glass is also called heat resistant glass.

#### **Features**

Our Flat Borosilicate 3.3 Float Glass Sheet is equivalent with SCHOTT BOROFLOAT®

1). Mechanical Performance							
Density <b>P</b>	2.23±0.02g/cm3						
2). Thermodynamic Performance							
Thermal expansion coefficient	(0-300) 3.3±0.1×10-6K-1						
Softening point	820±10						
Strain point	516±10						
Caloricity	(20-100) 0.82KJ × (kg×K)-1						
Thermal coefficient	1.2W×m×K-1						
Thermal shock resistance	180K						
Strengthening type	300K						
Identical temperature difference	100K						
Maximum working temperature Short time(<10h):	500						
Long time(>10h):	450						
3). Chemical Performance							
Water resistance	ISO719/DIN12111 HGB1/ISO720 HGA1						
Acid resistance	ISO1776/DIN12116 1						
Alkali resistance	ISO695/DIN52322 A2						
4). Optical Property							
Refractive index Nd:	1.47384						
Transmittance spectrum curve							
5). Electrical Property							
Specific resistance IgP	8.0 $\Omega$ ×cm at 250						
Dielectric dissipation fraction tan $\sigma$ (1	38×10-4						
megacycle at 20):	30×1U-4						
Dielectric constant	<b>ε</b> =4.7						

#### 3H Glass Co.,Ltd

- $\boldsymbol{0}$  complaint since the company established
- ${f 3}$  hours to the biggest port of North China
- 12 years on glass processing

#### **Dimension**

1150x1700mm				1150x850mm						
Other	size	could	be	produce	d	upon	the	request		

### **Thickness**

2mm	2.6mm 3mm		3.3mm
3.8mm	4mm 5mm		5.5mm
6mm	6.5mm	7mm	7.5mm
8mm 9mm		10mm	12mm
15mm 15.5mm		17mm	20mm

# **Capabilities**

Beveling, Cutting, Drilling, Edgework, Tempering, Bending, Sandblast, Silk screening, Laminating,

# **Applications**

- 1. 3D Printer industry
- e.g. build platform, heated bed.
- 2. Home application
- e.g. internal panels in ovens and panels in microwave oven.
- 3. Lighting industry
- e.g. cover panels for high power floodlights and projectors
- 4. Fireplace/Heater
- e.g. front panel in gas/ethanol/electrical fireplace, induction heater.
- 4. Protection
- e.g. bullet-resisting glass cover of high grade watch
- 5. Advance building flameproof glass