

# BOROFLOAT® 33 – General Information

The sum of its properties is what makes it unique.

BOROFLOAT® 33 from Germany is the world's first floated borosilicate flat glass. It combines superior quality and excellent flatness with outstanding thermal, optical, chemical and mechanical features. The chemical composition and physical values of BOROFLOAT® 33 are in accordance with ASTM E 438-92 (2001), Type 1, class A. Rediscover BOROFLOAT® 33 and experience the infinite potential of our most versatile material platform. BOROFLOAT® – Inspiration through Quality.

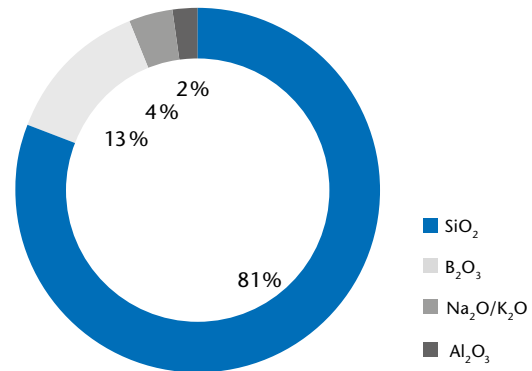


The world's first floated Borosilicate Glass – Made in Germany with IQ.

## Key benefits:

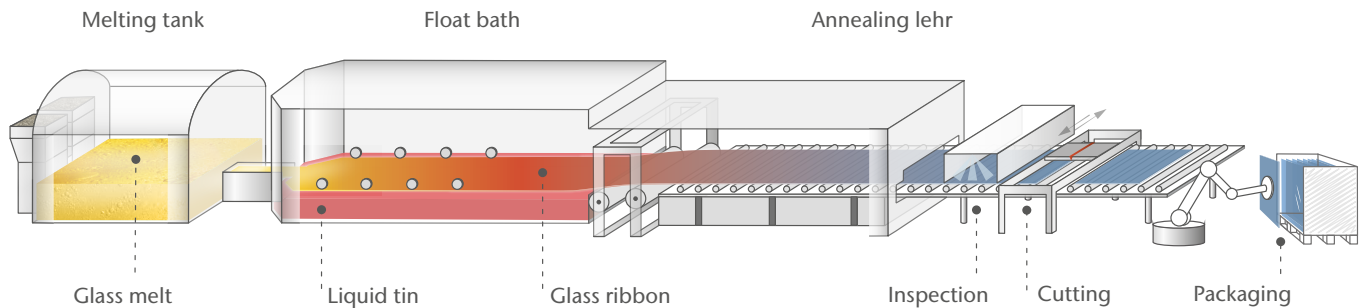
- Excellent mechanical strength
- Outstanding thermal resistance
- Exceptionally high transparency
- High chemical durability

## Chemical composition of BOROFLOAT® 33



## Production in the Microfloat Process

SCHOTT manufactures BOROFLOAT® 33 using proprietary, state-of-the-art Microfloat technology. The Microfloat process delivers highly homogeneous glass quality with a mirror-like surface, excellent flatness and outstanding optical properties.



BOROFLOAT® 33 is produced using SCHOTT's unique Microfloat process.

### Forms supplied

BOROFLOAT® 33 is available in the following standard thicknesses and tolerances:

Standard thicknesses	
Thickness in mm (inch)	Tolerance in mm (inch)
0.70 (0.027)	± 0.05 (0.002)
1.10 (0.043)	± 0.05 (0.002)
1.75 (0.069)	± 0.05 (0.002)
2.00 (0.079)	± 0.05 (0.002)
2.25 (0.089)	± 0.05 (0.002)
2.75 (0.108)	± 0.10 (0.004)
3.30 (0.130)	± 0.20 (0.008)
3.80 (0.150)	± 0.20 (0.008)
5.00 (0.197)	± 0.20 (0.008)
5.50 (0.216)	± 0.20 (0.008)
6.50 (0.256)	± 0.20 (0.008)
7.50 (0.295)	± 0.30 (0.012)
9.00 (0.354)	± 0.30 (0.012)
11.00 (0.433)	± 0.30 (0.012)
13.00 (0.512)	± 0.30 (0.012)
15.00 (0.590)	± 0.40 (0.016)
19.00 (0.748)	± 0.50 (0.020)
20.00 (0.787)	± 0.70 (0.027)
21.00 (0.827)	± 0.70 (0.027)
25.40 (1.000)	± 1.00 (0.040)

Panel thickness is continuously measured during production using laser thickness measuring equipment. Further thicknesses and tolerances are available on request.

### Processing options

BOROFLOAT® is also available in other formats. On request, further processing services can be offered, e.g. customer-specific cuts from BOROFLOAT® 33 standard sheet sizes and individual edge processing, with the quantities ranging from individual prototypes to series production.

### Cleaning

BOROFLOAT® 33 panes can be cleaned with warm water. Insoluble contaminants on the glass surfaces may require the use of a cleaning agent. Cleaning agents and their quantities must be adapted to the respective cleaning processes according to the manufacturer's instructions.

Note: Under no circumstances should abrasive sponges, scouring powders or other corrosive or abrasive cleaners be used, as these can cause damage to the surface of the borosilicate glass.

### Recommended storage

BOROFLOAT® 33 should be stored in the original packaging protected from moisture and other environmental influences.

Further data and information available on request.

### Sizes

BOROFLOAT® 33 is available in the following standard sizes:

Standard sizes	
Size in mm (inch)	Thickness in mm (inch)
1,150 x 850 (45.3 x 33.5)	0.7 – 25.4 (0.027 – 1.000)
1,700 x 1,300 (66.9 x 51.2)	19.0 – 21.0 (0.748 – 0.827)
2,300 x 1,700 (90.5 x 66.9)	3.3 – 15.0 (0.130 – 0.590)

BOROFLOAT® 33 is supplied in wooden boxes in accordance with the regulation ISPM15 for wooden packaging material in international trade (ISPM15 under the international plant protection convention IPPC).



BOROFLOAT® 33 is available in broad range of thicknesses.

Home Tech SCHOTT North America, Inc.  
5530 Shepherdsville Road  
Louisville, KY 40228, USA  
Phone +1 (502) 657-4417  
Fax +1 (502) 966-4976

borofloat@us.schott.com  
www.us.schott.com/borofloat

**SCHOTT**  
glass made of ideas