

# BOROFLOAT® 33 – General Information

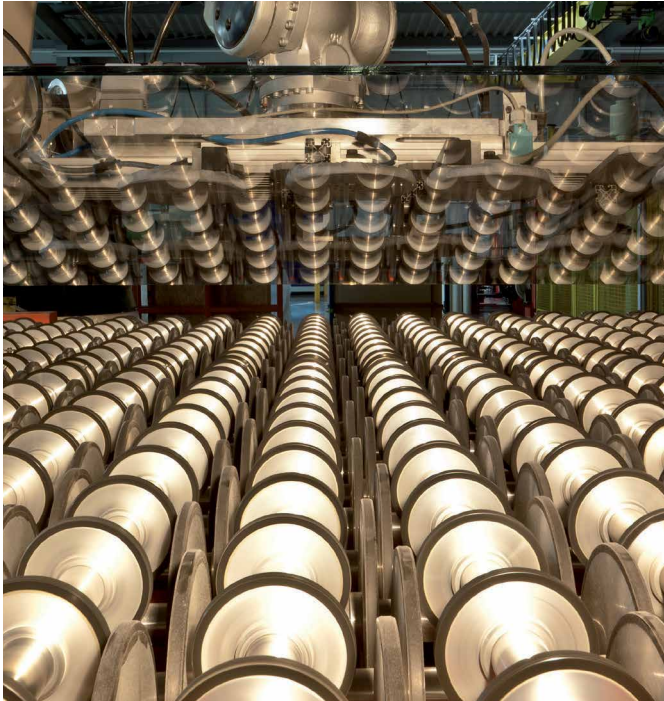
The sum of its properties is what makes it unique.

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 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.

A new **milestone** has been achieved!

For the first time, SCHOTT has been able to float thicknesses of **0.4 mm** and **0.5 mm**, the thinnest floated borosilicate glass in the world.

**Sampling now available!**

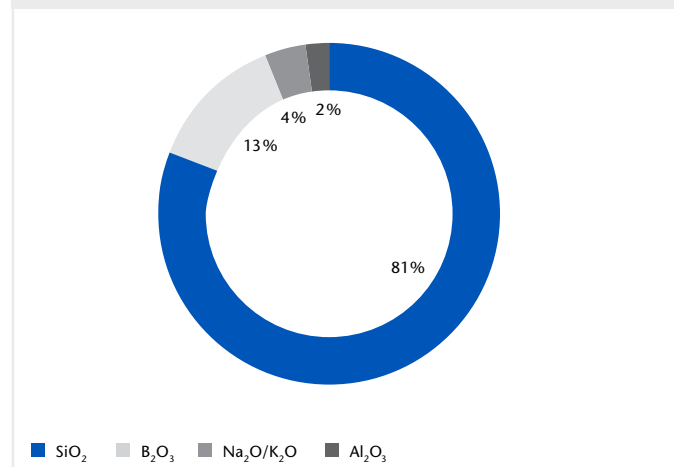


The world's first floated Borosilicate Glass – Made in Germany with IQ.

## Key benefits:

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

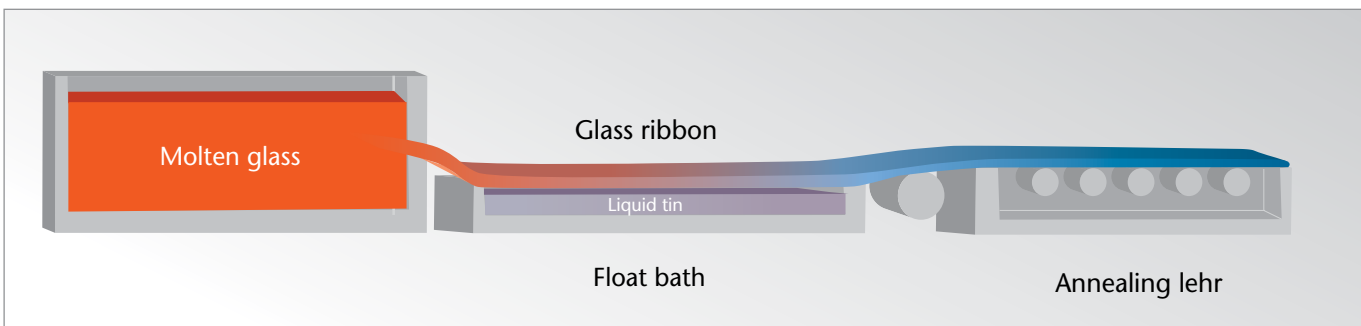
## Chemical composition



Chemical components 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)
16.00 (0.630)	± 0.50 (0.020)
19.00 (0.748)	± 0.50 (0.020)
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 and finishing

BOROFLOAT® 33 is also available in a broad range of cut-to-size formats (cut from standard BOROFLOAT® sheet sizes) and with various processing and finishing options to meet our customer's specification requirements. Further information regarding cut-to-size solutions, including processing options and associated tolerances, is available on request.

## Cleaning

BOROFLOAT® 33 sheets can be cleaned using any commercially available glass cleaner. 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.

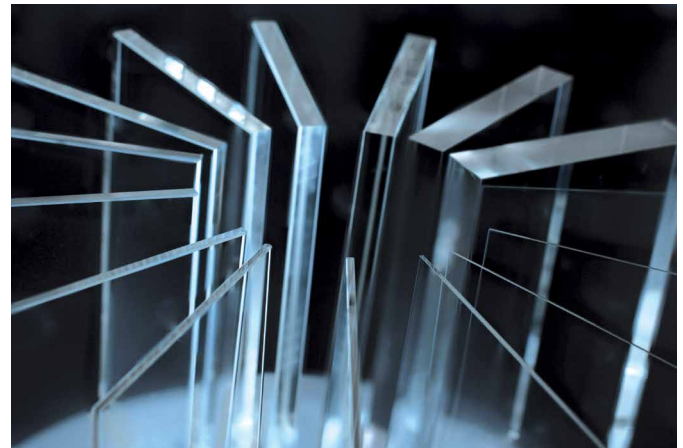
Further data and information available on request.

## Sizes

BOROFLOAT® 33 is available in the following standard sizes:

Standard sizes	
Size	Thickness
1,150 x 850 mm (45.3 x 33.5 in.)	0.7 – 25.4 mm (0.027 to 1.000 in.)
1,700 x 1,300 mm (66.9 x 51.2 in.)	16.0 – 21.0 mm (0.630 to 0.827 in.)
2,300 x 1,700 mm (90.5 x 66.9 in.)	0.7 – 15.0 mm (0.027 to 0.590 in.)

Standard sizes of BOROFLOAT® 33.



BOROFLOAT® 33 is available in broad range of thicknesses.

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glass made of ideas