

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. Its superior quality and excellent flatness combine with outstanding thermal, optical, chemical and mechanical features. The chemical composition of BOROFLOAT® 33 is 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.

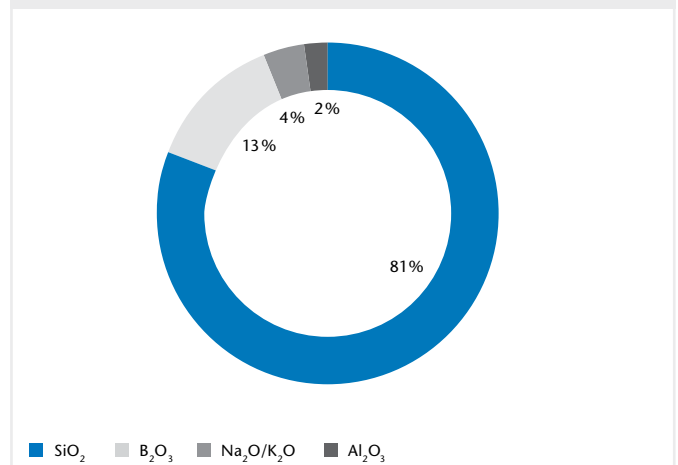


The world’s first floated Borosilicate Glass. Made in Germany with IQ.

Key benefits:

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

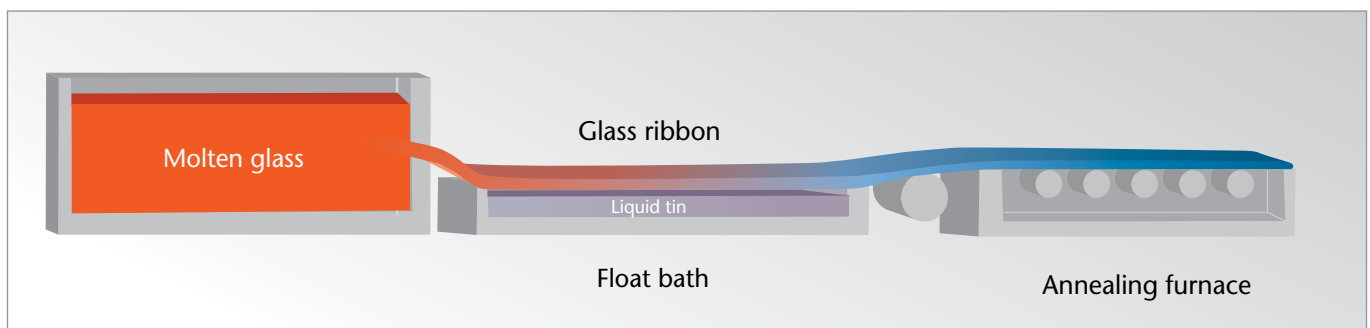
Chemical composition



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:

Standard thickness			
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)	± 0.10	(0.004)
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)	± 0.50	(0.020)
16.00	(0.630)	± 0.50	(0.020)
18.00	(0.708)	± 0.50	(0.020)
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)

Sheet thickness is measured using online laser-guided measurement 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 with various processing and finishing options to meet our customer's specification requirements. Further information regarding cut-to-size solutions 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.

Further data and information available on request.

Sizes

Please note following stock sizes / limits of BOROFLOAT® 33:

Stock size	
Standard 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.)

Typical standard sizes of BOROFLOAT® 33.

Limits/Rectangularity	
Limits t	Nominal size H or W
± 5 mm (0.197 in.)	≤ 1,000 mm (0.039 in.)
± 10 mm (0.394 in.)	> 1,000 mm (0.039 in.)

Limits and rectangularity are guaranteed to a tolerance of ± 2 mm (0.079 in.) for nominal thicknesses of ≤ 10 mm (0.394 in.).



BOROFLOAT® 33 is available in broad range of thicknesses.

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SCHOTT
glass made of ideas