



# BOROSILICATE GLASS BOROFLOAT® 33

## Features

BOROFLOAT® 33 is the world's first floated borosilicate flat glass from Germany. Its superior quality and excellent flatness combine with outstanding thermal, optical, chemical and mechanical features. The chemical composition and physical values of BOROFLOAT® 33 are in accordance to DIN ISO 3585 and DIN EN 1748 T1. Rediscover BOROFLOAT® 33 and experience the infinite potential of our most versatile material platform.

## Environments / Applications

A material with unlimited potential. Whether it be as an oven door window or a biochip used in modern medical technology, or as a component utilized in theater spotlights, film projectors or diving robots, few glass types can claim to be as versatile as BOROFLOAT® 33. Even space exploration has adopted the material as a key component in research telescopes, enabling scientists to view fascinating, new dimensions.

## Product benefits

Outstanding thermal resistance. Very good temperature stability, Excellent resistance to thermal shock, can be thermally toughened and shaped (3D).

Exceptionally high transparency

- High transparency in visible and near IR & UV range of wavelengths
- Outstanding visual quality and optical clarity
- Low inherent fluorescence and solarisation tendency

Low weight, Strong resistance to abrasion and scratches, High elasticity.

High chemical durability, High hydrolytic resistance, excellent resistance to acids, high resistance to alkalis, low alkali diffusion.

## Variants

standard dimensions

1,150 x 850 mm - available thicknesses 0,7 - 25,4 mm

1,700 x 1,300 mm - available thicknesses 16,0 - 21,0 mm

2,300 x 1,700 mm - available thicknesses 0,7 - 15,0 mm

Individual dimensions, round machining, edge and miter cuts, holes, recesses are available in any quantity.



## Specifications

Density  $\rho$  (25 ° C) 2.23 g / cm<sup>3</sup>

Young's modulus  $E$  (according to DIN 13316) 64 kN / mm<sup>2</sup>

Poisson number  $\mu$  (according to DIN 13316) 0.2

Hardness HK 0.1 / 20 (according to ISO 9385) 480

Bending tensile strength  $\sigma$  (according to DIN 52292 T 1) 25 MPa

Impact / shock resistance

Installation, cleaning and care

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

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

# BOROFLOAT® 33

A material with unlimited potential

by SCHOTT

## Borosilicate Glass with high quality level

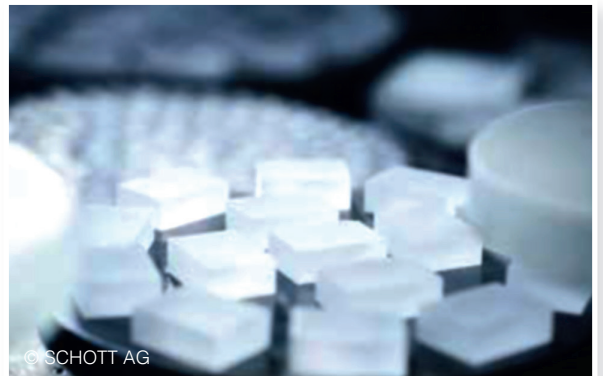
Pape Strahlenschutz GmbH is working in the worldwide sales, product-management and fabrication for smaller orders. We do have all standard thicknesses of this glass allrounder in stock.

BOROFLOAT® 33 is a high-quality borosilicate glass with outstanding properties for a wide range of applications. This unique special float glass, that can compete with the best technical-grade flat glass in the world, is manufactured by SCHOTT using the Microfloat process and the latest technology. This technology results in a homogeneous material that has an excellent mirror-like surface, a high degree of flatness, and outstanding optical quality. This opens a wide range of application in the optic, opto-electronic, photonic and analytic. The medical field and analysis is a further field of application, because acids and bases dismantling only a small amount of ion out of the glass, therefore the measurement results are not affected.

## Availability

thickness (mm)	tolerance	thickness (mm)	tolerance
0,70	±0,07	8,00	±0,3
1,10	±0,10	9,00	±0,3
1,75	±0,10	11,00	±0,3
2,00	±0,20	13,00	±0,5
2,25	±0,20	15,00	±0,5
2,75	±0,20	16,00	±0,5
3,30	±0,20	18,00	±0,5
3,80	±0,20	19,00	±0,5
5,00	±0,20	20,00	±0,7
5,50	±0,20	21,00	±0,7
6,50	±0,20	25,40	±1,0
7,50	±0,30		

## Pape Strahlenschutz GmbH



## The sum of its properties is what makes it unique!

- » outstanding thermal resistance
- » exceptionally high transparency
- » high chemical durability
- » excellent mechanical strength

## Application Areas

- » Chemical industry applications, i.e. as inspection glass for autoclaves and instrumentation
- » Cover Glasses for high power spotlights and lamps
- » Hometech applications (oven panels, insert panels for microoven, cover plates for room heaters)
- » Medical, Biotech, Microelectronics and analysis applications
- » Safety applications (bullet-resistant panels etc.)

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