Why Use Borofloat® Borosilicate Glass?

SCHOTT Borofloat® 33 borosilicate is a versatile glass with infinite applications. The unique float glass is manufactured in a process which results in a homogeneous material that has an excellent mirror-like surface, a high degree of flatness, and an outstanding optical quality.

- Borofloat® 33 is a clear and transparent colorless glass with excellent transmission and its very weak fluorescence intensifies over the entire light spectrum making Borofloat® 33 ideal for a wide range of applications in optics, opto-electronics, photonics, and analytical equipment.
- Has a low thermal expansion, high shock resistance, and the ability to withstand temperatures up to 450ºC for long periods, making it a good choice for applications requiring temperature stability.
- Is highly resistant to attack by water, strong acids, alkalis as well as organic substances which make it suitable for use in the chemical industry with applications such as sight glasses for reaction vessels and fitting.
- Has a lower density than soda lime float glass making it possible to construct lightweight laminated glass systems (e.g. bulletproof glass).
- Provides a high transmission of ultraviolet, visible, and infrared wavelength.
- Its low alkali content makes it a good electrical insulator.
- Its high boron content can be used as a neutron absorber glass for nuclear energy applications.
- Is environmentally friendly and made of natural raw materials. The glass can be recycled several times.
- Can be waterjet and laser cut, can be provided with arrissed, beveled, ground or polished edges, it can be coated (anti-reflective or AR coated) thermally toughened/strengthened, screen printed, sand blasted, surface polished, and drilled.