BORO-8330™

Technical Data

Glass Type/Application	Borosilicate glass 3.3 acc. to ISO 3585, chemically highly resistant, highly resistant to thermal shock Special applications in the pharmaceutical industry

Physical Data (approx. value)

Coefficient of mean linear thermal expansion

α(20°C; 300°C) acc. to ISO 7991	$3.3 \cdot 10^{-6} K^{-1}$	
Transformation Temperature T_g	525	°C
Glass temperature at viscosity η in dPa · s		
10^{13} (annealing point).....	560	°C
$10^{7.6}$ (softening point)	825	°C
10^{4} (working point)	1260	°C
Density ρ at 25°C	$2.23\ g \cdot cm^{-3}$	

Chemical Data

Hydrolytic resistance

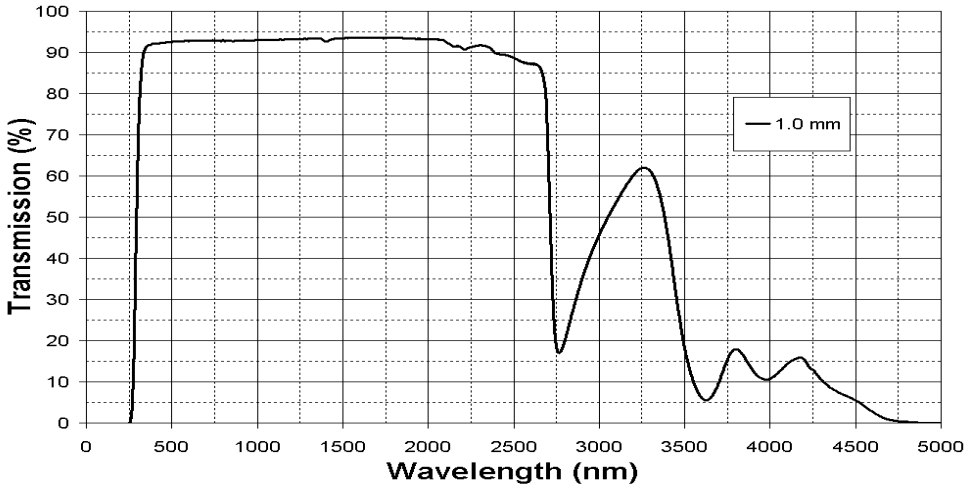
acc. to ISO 719	Class	HGB 1
acc. to Ph. Eur.	Type	I
acc. to USP.....	Type	I
acc. to JP.....	fulfilled	
Acid resistance (DIN 12116)	Class	S 1
Alkali resistance (ISO 695)	Class	A 2
ASTM E 438 ..... Type I	Class	A

Chemical Composition (main components in approx. weight %)

SiO_2	B_2O_3	Al_2O_3	Na_2O	K_2O
81	13	2	3.5	0.5

The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm.

Transmission (exemplary spectrum)



SCHOTT
glass made of ideas