

Technical Information – Glass

Soda lime glass	This glass is used for microscope slides for its surfaces' properties. Due to its high linear coefficient of expansion it does not withstand thermal shocks.
Borosilicate glass D 263® M	This glass is highly resistant against acids and alkali and perfectly suitable for microscope cover glasses. Due to its high linear coefficient of expansion it does not withstand thermal shocks.
Borosilicate glass 5.1	This glass is more resistant to variations of temperature than soda lime glass and D 263® M.
Borosilicate glass 3.3	This glass is perfectly suitable for high quality measuring instruments as it is highly resistant against acids and alkali. Due to its small linear coefficient of expansion it withstands thermal shocks very well.

	Soda lime glass	Borosilicate glass D 263® M	Borosilicate-glass 5.1	Borosilicate-glass 3.3
Linear coefficient of expansion approx.:	$9 \times 10^{-6} \times K^{-1}$	$7 \times 10^{-6} \times K^{-1}$	$4,9 \times 10^{-6} \times K^{-1}$	$3,3 \times 10^{-6} \times K^{-1}$
Autoclavable:	Yes	Yes	Yes	Yes
Hydrolytic resistance (DIN ISO 719):	Class 3	Class 1	Class 1	Class 1
Acid resistance (DIN 12 116):	Class 3	Class 2	Class 1	Class 1
Alkali resistance (DIN ISO 695):	Class 2	Class 2	Class 2	Class 2