

ELAB GLASS®

15 Years ago we decided to take our passion for manufacturing high quality products to lab supplies and glassware. Today we are proud to showcase our ELABGLASS™ line.

Manufacturing of glassware is both an art and science that takes an incredible amount of skill. We employ the finest glass blowers and technicians to hand create glassware to the tightest tolerances while following state of the art manufacturing and calibration techniques. We use only the highest quality low expansion borosilicate 3.3 glass and follow manufacturing and calibration in accordance with ISO/DIN/ASTM standards. Each piece of volumetric glassware is calibrated individually in our ISO17025 compliant calibration lab.

The job is not done after blowing, calibrating and labeling a piece of glass, it then needs to be packaged in a way that delivers the piece unharmed to the end user. Our packaging is both innovative, protective and easy to use as we have unique package designs for each piece of glass.

We believe that you will enjoy the passion and attention to detail that can be seen when you use ELABGLASS®.

Thermal Properties

Coefficient of thermal expansion of ELabGlass® glass is low, the temperature gradient are consequently low and the glass can withstand higher temperature gradients and also sudden temperature changes/thermal shocks.

Coefficient of Linear Expansion	$3.3 \times 10^{-6} / ^\circ\text{C}$
Strain Point	515 °C
Annealing Point	565 °C
Softening Point	820 °C
Specific Heat	0.2
Thermal Conductivity Cal/cm ³ °C/Sec	0.0027

Chemical Durability

ELabGlass® glassware is highly resistance to water, neutral and acid solutions, concentrated acids, chlorine, bromine iodine and organic matters. It can with stand repeated dry and wet sterilisation without surface deterioration and subsequent contamination. Only hydrofluoric acid, very hot phosphoric acid and alkaline solutions increasingly attack the glass surface with rising concentration and temperature.

Contact Chemical mg/m2

Water distilled at 100 °C
Water Vapour Steam at 121°C
Acid HCl
80% H SO at 130°C
Alkali -1N soln. of Na CO boiling
Infusion Fluids Isotonic
NaCl (0.85%) 121°C
Glucose (5%) 121°C

Duration in Hr.

6
1
6
12
6
2 ½
2 ½

Loss in wt.

10
75
100
140
4000
70
50

