

Alchemy Glass Used in Labware

With proper care, *Alchemy* glass will withstand nearly all temperatures used in normal laboratory use. It is highly resistant to chemical attack. Its low coefficient of expansion allows it to be manufactured with heavy walls, giving it mechanical strength, while retaining reasonable heat resistance. And, it is a glass that can be fabricated more easily than most other glasses, thus making it more economical.

Chemical Composition

Composition (percent approx.)

SiO ₂	81%
B ₂ O ₃	13.0%
Na ₂ O / K ₂ O	4.0%
Al ₂ O ₃	2%

Physical Properties

Coeff. of Exp.	32.5 x 10 ⁻⁷ cm/cm/°C
Strain Point	515°C
Anneal Point	565°C
Soften Point	820°C
Density	2.23 g/cm ³
Temp. Limits	490°C (Extreme Service)
	230°C (Normal Service)
Max. Thermal	Shock 160°C

Applications

Designed for use in all products requiring very high resistance to strong acids, alkalis and products intended for use in heat applications such as autoclaves, hot plates and open flame.

Warnings

1. Thick-walled ware, such as bottles, jars and desiccators, should not be heated over a flame, a hot plate, or other comparable source of heat.
2. Do not use hydrofluoric or hot phosphoric acid in glass.