

# Heat Resistant Glass Advantages

Specifications	High Borosilicate	Low Borosilicate	Soda-lime Tempered	Soda-lime
<b>Main Components</b>	SiO <sub>2</sub> , B <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub> , B <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub> , Na <sub>2</sub> O, Cao	SiO <sub>2</sub> , Na <sub>2</sub> O, Cao
<b>B<sub>2</sub>O<sub>3</sub></b>	≥12%	≤8%	≤1%	≤1%
<b>Features</b>	Lowest coefficient of thermal expansion; Excellent heat resistant performance	Higher coefficient of thermal expansion; Lower heat resistant performance	Strong thermal stress can improve the mechanical and safety performance in lower temperature	High coefficient of thermal expansion; Only use in normal temperature; Low cost
<b>Daily Use Risk</b>	No spontaneous explosion	Spontaneous explosion in high temperature	Spontaneous explosion (≤7‰) in normal temperature	No spontaneous explosion
<b>Thermal Shock</b>	≥120°C	≤100°C	≤90°C	≤60°C
<b>Temperature Range</b>	-40°C - 560°C	-20°C - 100°C	-20°C - 80°C	-10°C - 60°C
<b>Applications</b>	Kitchen bakeware; Table glassware; Laboratory glassware; High temperature industry	Low temperature kitchen glassware	Low temperature kitchen glassware	Low temperature kitchen glassware
<b>Oven</b>	OK	NO	NO	NO
<b>Microwave</b>	OK	Used with caution	NO	NO
<b>Freezer</b>	OK	OK	OK	OK
<b>Dishwasher</b>	OK	OK	OK	OK