

6mm low iron heat soak tempered glass is a safety glass that is five times stronger than annealed glass of the same size and thickness. The glass gets this strength from the tempering process, intense heating the glass to softening point and rapid cooling to change the tensile stress on the surface. After tempering process, **tempered glass** is put into heat soak oven and brought to and held at a temperature of 290 degrees centigrade for two hours, most glass containing nickel sulphide will shatter during heat soak test. Heat soak reduces the probability of glass self-explosion to 1/10000.



Application

6mm ultra clear heat soak glass is a highly safe glass, self-detonation probability is very very low, even when glass break, the glass disintegrates into small cubical fragments, which are relatively harmless and are unlikely to cause severe injury. It is widely used in glass window, partition, shower door etc, also can process into laminated glass and used in railing, roof, curtain wall etc.

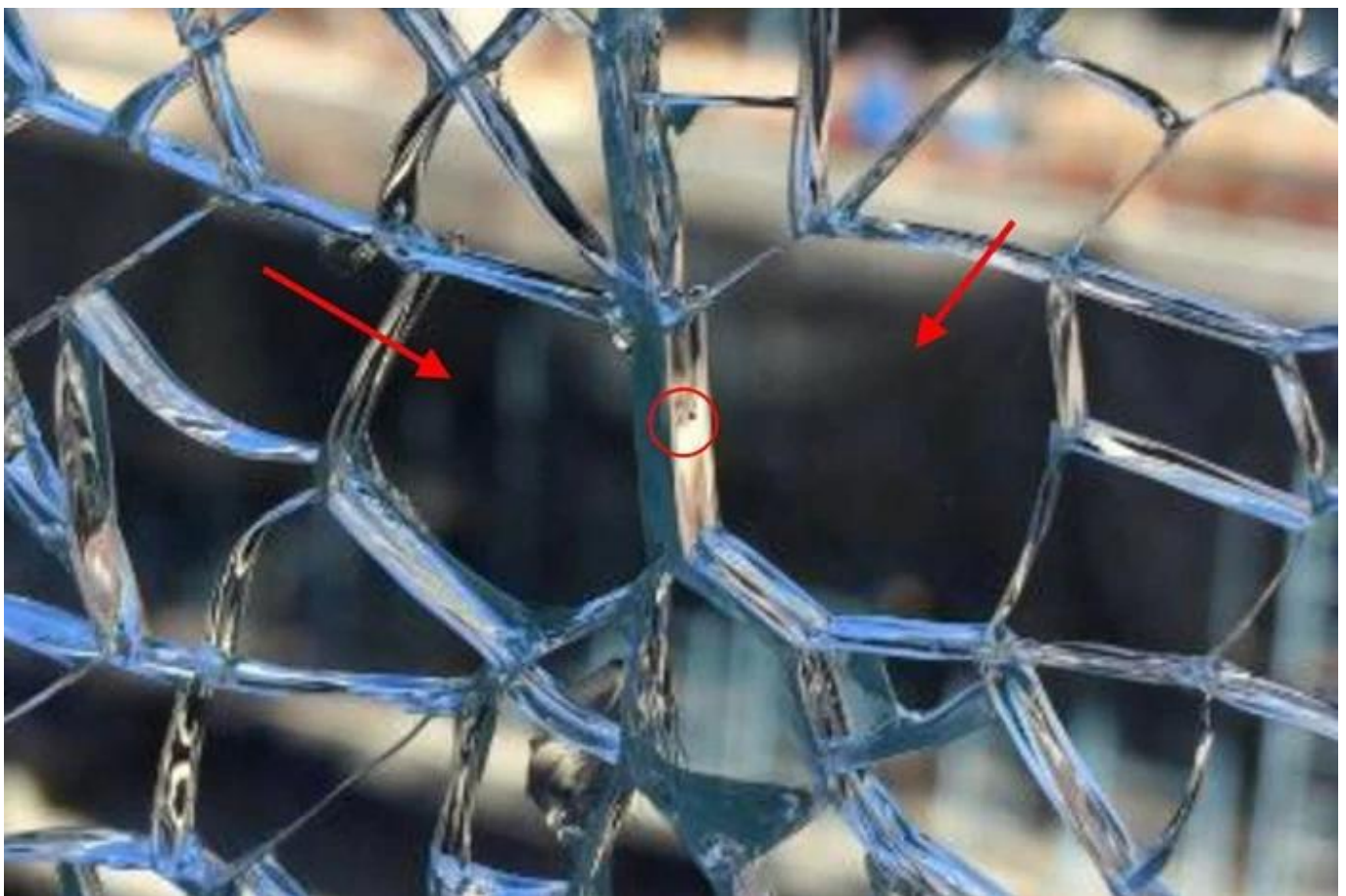


Why Do We Heat Soak Test?

The heat soak test is a method that reduces the incidence of spontaneous breakage in tempered glass caused by nickel sulphide.

Nickel sulphide is a source of metallic nickel, it is found from steel used in handling the processing of the float batch material. Nickel sulphide is an inclusion with glass and is barely visible to the human eye, it can only generally be seen after the glass has broken.

Nickel sulphide inclusions change their structure and volume during the tempering process, this changed state is trapped. Therefore, at room temperature, the nickel sulphide inclusions tend to change back to their original state, which having bigger volume and can cause spontaneous breakage. This changing back of state could happen in a few minutes to a few years, making it unpredictable when the tempered glass may break. To minimize the risk of nickel sulphide breakages and reduce damage, a heat soak test is performed.



Shenzhen Sun Global Glass process by using high quality clear float glass without any bubbles and cracks.

Heating annealed glass in a furnace to 680°C to 710°C and then rapidly cooled.

Tempered glass is put into heat soak oven and held at a temperature of 290 degrees centigrade for two hours.

LED lighting detection to make sure each sheet of glass are all in good condition before packing and loading



Material Storage Area



Cutting Machine



Edgeworks



Drilling Machine



Washing Machine



Tempering Furnace



HEAT SOAK TEST



LED Lighting Detection



Packing & Loading

Sun Global Glass Advantages

