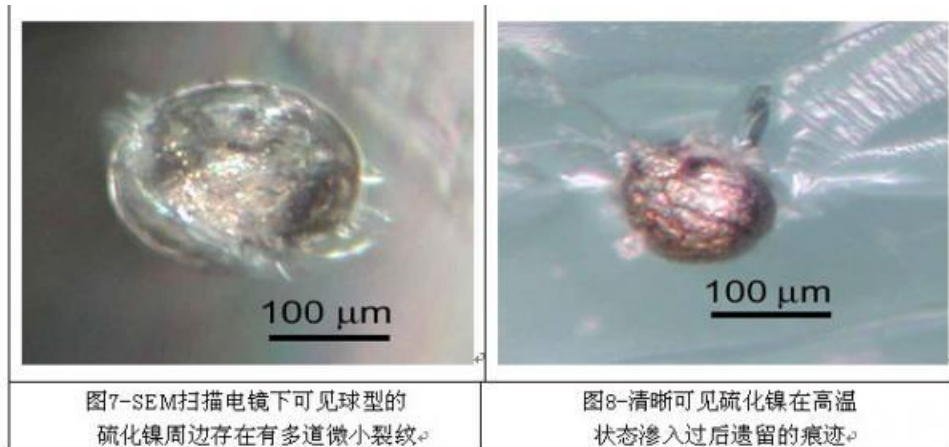


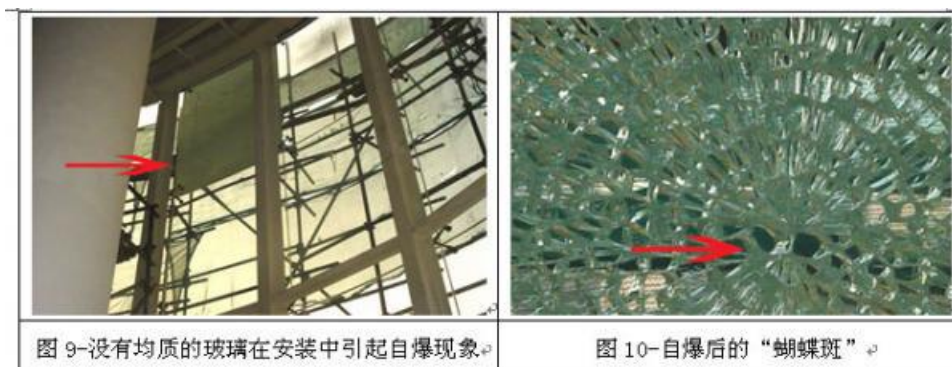
tempered glass and NIS

Tempered glass is easy to self explosion. "self-explosion" is the unavoidable problem of tempered glass. In fact, tempered glass is not horrible, and the potential self-explosion of tempered glass has always been the focus of attention.



Source of nickel in glass

2.1 During the installation process of the float production line, the cleanliness of the nickel compound in the furnace has not received much attention from the float glass producers, mainly including the weld head and welding slag left after the steel structure in the furnace has been welded. Rationally speaking, it is normal for a seam to produce hundreds or even tens of thousands of small nickel compounds during welding. In fact, this also directly affects the nickel content of the float glass produced by the entire furnace. A good view of the tempered glass on the surface may shorten its service life by containing nickel sulfide greater than 60 μm .



2.2 Raw materials are also a problem that cannot be ignored. The components of float glass are quartz sand (silica sand), soda ash, thenardite, dolomite, feldspar (potassium feldspar, albite), limestone, flux, clarifier, colorant, broken glass, etc., mainly found in silica sand, dolomite, feldspar, a trace of nickel.

The glass contains nickel sulfide crystals. NiS (nickel sulfide) has a phase transition process at 379 °C. When the high-temperature α -NiS crystal system is changed to the low-temperature β -NiS crystal system, the



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Your turnkey China tempered glass/laminated glass/insulated glass supplier volume expands by 2% to 4%. And the surface is rough. If these impurities are in the tensile stress zone of the tempered glass, volume expansion may cause spontaneous bursting.

Glass deep processing enterprises will have **heat soak test** on after the tempering process, effectively reducing the probability of self-explosion.



图 1-采用循环风强制对流加热式的均质炉

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Tags: **FLOAT GLASS**, **heat soaked glass**, **heat soaking**, **NIC**, **nickel sulfide**, **nickle**, **self-explosion**, **tempered glass**, **tempering process**

About Morn Building Materials:

Morn Building Materials Co.,Ltd is trading company offering the right facade materials for a wide range of applications for architectural,design and system requirements.Cooperating with China premium glass fabricators,Morn is able to supply whatever glass products applied in facade,Spandrel ,roof ,handrail,partition,balustrade,canopy,greenhouse,sun room ,interior exterior application.

Other facade materials:Aluminium alloy profiles,aluminium plates,aluminium windows&doors,Assa Abloy hardware,spider fitting,railing systems,shower rooms,polyurethane panels,machines&tools,steel structure, are also available since 2019.

From aesthetics, to strict environmental and energy specifications, to critical budget and delivery requirements, our input can make a difference.



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