

China Kunxing glass factory supply CE [Certificate](#) [12mm Clear](#) [Toughened Glass](#)

Brief Introduction

Toughened glass, also name Tempered Glass, is fabricated by heating annealed glass to over 600°C and cooling it rapidly, which locks the outer surfaces of the glass in a state of high compression, and the core or center of the glass in compensating tension. It is a [safety glass](#) which is used when strength, thermal resistance and safety are important considerations.



Characteristic

High Strength

The tempered glass performs well in resisting bending and hitting owing to its high strength which is 3-5times that of normal annealed glass. It is able to withstand a surface pressure of 95Mpa.

High Safety

When the [tempered glass](#) is broken, it turns into alveolate granules with obtuse angles, which guarantee safety to make sure human harmless, and the toughening process greatly reduces the risk of thermal breakage to ensure less loss.

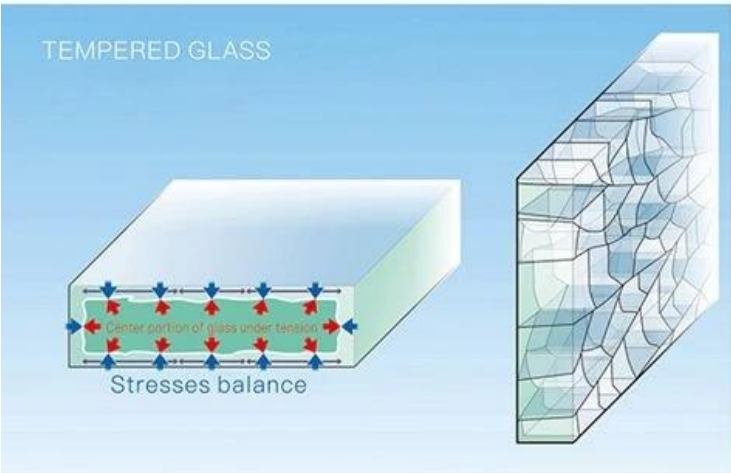
Heat Stability

The tempered glass is capable of withstanding a temperature change of 250 to 320°C while normal annealed glass can only bear 20 to 100°C.

Performance Comparison

Items	Tempered Glass	Semi-tempered Glass	Normal annealed glass
Safety	Best	General	None
Intensity	152Mpa	/	30-90Mpa
Thermal Stability	250-320°C	100°C	20-100°C
Surface Stress	95Mpa	24-69Mpa	/
Broken State	Obtuse-angle grain	Shooting-broken	Sharp

Toughened principle Surface of glass in compression(> 10,000 psi)
钢化玻璃玻璃在压缩面 (> 10000 psi)



Compare normal glass with toughened glass
钢化玻璃与普通玻璃比较

Toughened glass broken into small cubical fragments
high safety human harmless.



Normal glass broken into big and sharp fragments
easy hurt human.



The comparison between tempered glass, heart strengthened glass and normal glass
钢化、半钢化与普通玻璃的性能比较 (安全性、强度、热稳定性、破碎状态)

KXG Tempered Furnace



Strong Tempered Glass [Packing](#)

