

NEWS **Release**



ABRISA Technologies

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Chemically Strengthened Thin Glass from Abrisatechnologies Produces Minimal Optical Distortion in Display Panels & Touch Screens

Santa Paula, CA – Abrisatechnologies chemically strengthens thin glass per ASTM 1422 and tests per ASTM C 158. This process does not affect the optical quality of the glass, making it an ideal solution for display panel and touch screen applications. The [chemical strengthening](#) process can make the glass up to 8 times stronger than annealed float glass.



This strengthening process is done via an ion-exchange surface treatment, and works well for strengthening [soda-lime](#) or other thin glass material with high a high sodium oxide content and a thickness of less than 3 mm. Abrisatechnologies has the capability to chemically strengthen glass in sizes up to 46" x 29".

Chemically strengthened thin glass by Abrisatechnologies, improves transmission, reduces weight, and may also reduce mounting costs, while also providing improved impact resistance, scratch and abrasion resistance, and increased bending strength and temperature stability.

The chemical bath process causes the surface of the glass to be in a state of compression and the core in compensating tension improving the tensile strength of the glass. The end result of chemical strengthening is glass that has little or no bow, warp, optical distortion, or strain pattern.

Optical clarity is of prime importance for display panel and touch screen applications; consequently chemically strengthened glass is used versus heat tempered glass. Glass that has been chemically strengthened by Abrisatechnologies is well-suited for optical bonding, protective covers, viewports, and front surface optics in hostile environments including high temperatures, high pressure, and vacuum situations.

- more -

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About Abrisa Technologies: [Abrisa Technologies](http://www.abrisatechnologies.com) is headquartered in Santa Paula, California and is comprised of three divisions that provide precision glass optics products and services. The divisions include; Abrisa Industrial Glass, Inc., Sycamore Glass Components, and ZC&R Coatings for Optics. As a market leader in optical coatings and high quality precision glass fabrication, Abrisa Technologies is dedicated to providing premier customer service and cost-effective products that fit each customer's exacting requirements.
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