

Fabrication Fact

What are the Benefits of Low Iron Soda-Lime Glass?

Low Iron Soda-Lime Glass or water-white glass is a clear transparent soda-lime-based glass that is almost tint-free, resulting from its being produced from higher quality grades of silica sand that are almost totally free of iron oxides. 1/8" thick low iron glass transmits approximately 2 to 3% more light than regular soda-lime glass, making it a perfect solution for applications requiring maximum visible light transmission and little to no color distortion.



Features

- 2 to 3% higher light transmission in 1/8" thickness vs. regular soda-lime glass and 8% higher light transmission in 1/2" thickness vs. regular soda-lime glass
- 91% visible light transmission for 1/8" – 3/8" thick glass
- Good flatness and surface quality due to float process
- Can be coated with anti-reflection coating on both sides to achieve 98% total light transmission
- Retains colorlessness and clarity over time unlike some plastic components which can yellow
- Can be fully heat tempered to increase thermal shock resistance and mechanical strength

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Glass Fabrication



Coating Deposition



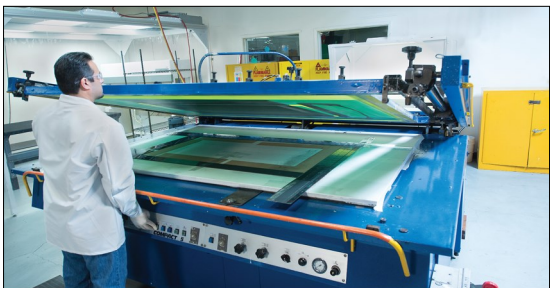
CNC Machining



Strengthening - Chemical & Heat



Screen Printing of Graphics



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Our US based, state-of-the-art ISO 9001:2015 and ITAR registered facilities include Abrisa Industrial Glass in Santa Paula, CA and ZC&R Coatings for Optics in Torrance CA. These two divisions produce solutions from cut-to-order coated glass components to custom complex and ready-to-install fabricated, strengthened, optically coated, electronically enabled and branded sub-assemblies.

Our Total Solutions serve a variety of markets including Micro-Electronics, Defense and Avionics, Display, Industrial Automation, Optical Sensors, Imaging, Photonics, Medical & Dental, Life Science and more.



Abrisa Industrial Glass
200 South Hallock Drive
Santa Paula, CA 93060

ZC&R Coatings for Optics
1401 Abalone Avenue
Torrance, CA 90501

(877) 622-7472

www.abrisatechnologies.com
info@abrisatechnologies.com