



**FOR IMMEDIATE RELEASE**

## **AGC's New AN Wizus™ Glass Substrate for High Resolution Displays Achieves World's Lowest Level of Thermal Shrinkage**

Reduced shrinkage will improve quality and productivity of display devices

**Tokyo, May 14, 2013**—AGC, a world-leading manufacturer of glass, chemicals and high-tech materials, announced today that AN Wizus™, a glass substrate with the world's lowest level of thermal shrinkage, will be offered for use in high-resolution display panels, such as those used in smartphones and tablets, beginning this month.

AGC will display AN Wizus™ at the Society for Information Display (SID) show in Vancouver from May 20.

High-resolution display panels, such as low-temperature polysilicon liquid crystal and organic electroluminescent displays, increasingly are being adopted for smartphones and tablets. Shrinkage of the glass substrate due to high-temperature processing, however, can significantly lower the quality and manufacturing productivity of high-resolution display panels.

AGC manufactures glass substrates using the float process, which enables optimal slow cooling for low-level shrinkage. The company's existing AN100 glass substrate now used by numerous customers features one of the industry's lowest levels of thermal shrinkage. AN Wizus™, which also is manufactured with the float process and features an upgraded glass composition, limits shrinkage to one fifth that of AN100, creating high expectations for improved performance quality and manufacturing productivity of high-resolution display panels.

Key Attributes	AN Wizus™	AN 100	Remarks
Significantly low thermal shrinkage (after 10-minute heat processing at 600°C)	7ppm	33ppm	About 80 percent improvement
High Young's modulus with low sagging	85GPa	77GPa	About 10 percent improvement
Fast etching in panel-thinning process	—	—	About 10% faster than AN100 (AGC estimates)
Good photoelastic constant	27nm/cm/MPa	31nm/cm/MPa	About 10 percent improvement

AGC will continue to pursue a wide range of glass technologies, including for glass material design and high-level glass manufacturing using the float process, to contribute to the further development of displays.

### **About the AGC Group**

The AGC Group, with Tokyo-based Asahi Glass Co., Ltd. at its core, is a world-leading supplier of flat, automotive and display glass, chemicals and other high-tech materials and components. Drawing on more than a century of technical innovation, the AGC Group has developed world-class expertise in fields including glass, fluorine chemistry and ceramics technologies. The group employs some 50,000 people worldwide and generates annual sales of more than 15 billion USD through business in about 30 countries. For more information, please visit [www.agc-group.com/en](http://www.agc-group.com/en).

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### Reference

Exterior view of AN Wizu<sup>TM</sup>

