

Monocrystal expands LED industry prospects by introducing 10-inch sapphire substrate

Stavropol, Russia, December 8, 2010 – Monocrystal, a leading manufacturer of electronic materials for LED and solar industries, announced today availability of the company's innovative ultra-large 10-inch C-plane epi-ready sapphire substrate.



Monocrystal's 10-inch sapphire substrate vs 2-inch sapphire substrate

Source: Monocrystal

The LED industry continues shifting to larger diameter substrates as it strives to achieve higher cost savings and to increase production throughput of quality LED chips to bring LED lighting closer to its widespread use.

Driven by its strong commitment to technology innovation for sustainability, Monocrystal continues developing next generation large-diameter sapphire wafer technology.

"We were ahead of competition with our best in class 8-inch sapphire substrates for LED and RFIC applications. Now, the introduction of innovative 10-inch LED sapphire substrates clearly demonstrates that Monocrystal is well positioned to support the growing market demands and expands LED industry prospects. This further strengthens

Monocrystal position of technology and industry leader," said Oleg Kachalov, CEO of the company.

Today, sapphire substrates are used for more than 90% of GaN LED chips produced by the industry, including high-brightness devices used for LED lighting products. Compared with conventional incandescent lamps, LED consumes up to 90% less energy, and its life spans 50 times longer. Due to their unique features, LEDs also have become increasingly adopted in other applications, such as mobile devices, displays, traffic lights, car lighting and interiors.

About Monocrystal

Monocrystal is a leading supplier of sapphire products for LED and metallization pastes for solar industry. The company's product portfolio includes large diameter sapphire substrates for LED and RFIC applications and screen printing pastes for silicon wafer based solar cells, including lead-free pastes. The company exports more than 95% percent of its products to more than 25 countries worldwide. For more information, visit <http://www.monocrystal.com/>

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