

## **CoorsTek Announces New Ceramic Substrate Offering to Electronic Markets**

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*New “UltraFine” substrates promise exceptional as-fired surface quality – preferred for eutectic metal bonding and fine-line screen printing and etching.*

Golden, Colorado, November 11, 2004 – CoorsTek, Inc., a long-standing authority on technical ceramic substrates for use in electronic applications, today announced the introduction of a new type of ceramic substrate – the UltraFine™ thick-film ceramic substrate.

This new substrate virtually eliminates what is known in the industry as the “orange-peel effect,” small variations on the substrate surface that may inhibit proper bonding between metallization and the ceramic – especially for eutectic-bonded metals. Utilizing the same 96% aluminum oxide found on their standard thick-film substrates, UltraFine substrates will feature identical electrical and mechanical properties.

Developed and manufactured in the company’s Grand Junction facility, UltraFine substrates are offered in three thicknesses – 0.005”, 0.010”, and 0.015” (0.127, 0.25, and 0.38 mm). “Our customers have taken a keen interest in the product – especially where surface conditions are an issue for direct bond copper, copper plating, and fine-line etch and screen-print metallization,” explains Lorrie Van Dyke, a technical representative for CoorsTek. Standard 0.005”, 0.010”, and 0.015” thick-film and MidFilm® substrates will remain part of their ceramic substrates product offering.

UltraFine is a trademark of CoorsTek, Inc. MidFilm is a registered trademarks of CoorsTek, Inc.

**More about CoorsTek...**

CoorsTek is the largest technical ceramics manufacturer in North America and has facilities in Europe and Asia. CoorsTek supplies critical components and complete assemblies for medical, automotive, semiconductor, aerospace, electronic, power generation, telecommunication, and other industrial applications. Using technical ceramics, engineering plastics, specialty metals, and high-purity fused quartz, the company's engineering and material solutions enable its customers' products to overcome technological barriers and improve performance. For more information about CoorsTek, please visit the Company's website at [www.coorstek.com](http://www.coorstek.com).

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