



## ESL ELECTRO-SCIENCE

CERAMIC TAPES &  
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### FOR IMMEDIATE RELEASE

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### CERAMIC TAPE CAPACITY EXPANSION FOR SOLID OXIDE FUEL CELLS AND OTHER TAPE APPLICATIONS

**KING OF PRUSSIA, PA, October 18, 2004** - ESL Electro-Science has today announced plans for a \$1,000,000 dedicated ceramic tape facility, to be installed in a 2,000 square meter building which ESL acquired earlier this year next to its existing headquarters in King of Prussia, PA. Two new 15-meter tape casters have been purchased, which with other additions, will increase the ceramic tape capacity by almost 500 %, and allow production of tape widths up to 350 mm and of thicknesses in the range 10 micrometers to 1 mm.

The new facility will allow state of the art process and dimensional control. The company has also added equipment to print, laminate, and fire multilayer assemblies for testing, quality assurance and prototype manufacturing.

ESL is a world leader in the production of materials for SOFC and other fuel cells. As SOFC technology has moved from laboratory to pilot scale and production scale quantities, ESL has developed a full range of tape and ink or paste materials (available on their web site at [www.electroscience.com](http://www.electroscience.com)) and works with fuel cell manufacturers on four continents to engineer, scale up and commercialize customers' proprietary formulations.

The company's forty years' experience in thick-film materials for sensors and microelectronics in an ISO 9001:2000 environment has brought scale-up and manufacturability expertise to an industry that has to date been laboratory based.

The company says that the demand for its ceramic tape and tape casting capability has risen throughout 2004, with many new customers involved with fuel cells, components and microelectronic packages. ESL also develops compatible screen-printable inks or pastes for co-firing or post-firing with its ceramic tapes.