

## News Release

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### MAGNECO/METREL PRESENTS STUDY DATA ON INNOVATIVE LINE OF CRUCIBLES

MILWAUKEE (November 3, 2006) -- Magneco/Metrel, Inc., the innovative leader in nanoparticulate technology for the metalworking industry, presented new study data on the superior performance of its line of high alumina Sol-Gel bonded crucibles at the Investment Casting Institute technological conference and expo here.

The advanced crucibles provide unprecedented hot strength and thermal shock resistance, and are produced with the Metpump C-190 Crucible formulation of the company's patented, Sol-Gel bonded nanoparticulate refractory.

In the new studies, Metpump C-190 crucibles were found to have approximately twice the hot strength as traditional clay-bonded high alumina crucibles (13.5 cold modules of rupture [MPa] compared with 6.2 MPa) and were significantly less porous (13 percent versus 16 percent) when fired to 1,400

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degrees Celsius. Furthermore, the Metpump crucibles suffered only 0.33 percent linear deformation in hot load tests, compared to 0.60 percent for clay-bonded crucibles.

Most significantly, the Metpump C-190 crucibles outperformed the clay-bonded high alumina crucibles by a factor of 2 to 1 on ASTM C-1171 Thermal Shock Resistance tests.

"These key advantages can translate into major gains in productivity on the foundry floor, including new levels of quality performance," said Charles Connors, Sr., president of Magneco/Metrel. "In addition to their durability and superior results at high temperatures, Metpump products are highly resistant to corrosion and abrasion. The combination of these attributes makes Magneco/Metrel crucibles ideal for the high demands of today's casting industry."

The crucibles may be ordered to the customer's exact specifications, including specialized forms such as teapot ladles. For further information on Magneco/Metrel's line of custom-designed crucibles, please contact Kristie Monte at 630/543-6660.

Magneco/Metrel, Inc. is the world's leading developer and manufacturer of nanoparticulate refractory technology, with headquarters in Addison, Illinois and facilities in 16 countries worldwide. More information is available online at

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[www.magneco-metrel.com](http://www.magneco-metrel.com).

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