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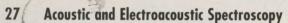
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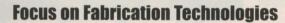
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Acoustic and electroacoustic spectroscopy can be used to characterize and, more significantly, provide tools to understand, optimize and control the final aggregative state of a ceramic slip.

Philip J. Goetz

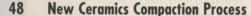
33 Bauxite Porcelain: A New High-Tech Product for High-Voltage Insulation
Traditional alumina porcelain high-voltage insulators can be replaced by less-expensive bauxite porcelain
insulators without loss of strength.
Johannes Liebermann and Wolfgang Schulle



41 Gelcasting: High-Alumina Refractory Castables

Gelcast castables have macrostructural homogeneity and prefiring mechanical strength similar to cement-containing castables, but they incorporate no oxides to deteriorate the mechanical properties of refractories at high temperatures and have slightly higher flowability than cement-containing castables.

A.R. Studart, F.S. Ortega, M.D.M. Innocentini and V.C. Pandolfelli



A new powder compaction system has been developed to produce high-quality parts of complex shapes at low cost using small-sized, flexible, digitally controlled presses.

Glenn Beane

53 Chemical Additives for Pressure Tape Casting

Sodium salt deflocculants, used alone and in mixtures, result in suspensions that are slightly dilatant, have low viscosity and yield stress values close to zero, which permit an easier degasification of the suspension. These additives can be used in pressure tape casting.

F. Andreola, E. Castellíni and M. Romagnoli

57 Spray-Freeze-Dried Granules for Ceramics Fabrication

The spray-freeze-drying technique eliminates the segregated binder layer found in spray-dried granules, which has been a cause of inferior strenth and reliability of ceramic materials.

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ACerS 104th Annual Meeting and Exposition, St. Louis, April 28-May 1, 2002

ACerS 105th Annual Meeting and Exposition, Nashville, Tenn., April 27-30, 2003



product news . . .

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