



Microstructural Analysis of the Ceramic Corrosion in Frit Melts

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Book Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | A Closer Look: Glass/Ceramic Interfaces Corrosion Induced by Frit Melts in Alumina | Ceramic products are made from natural or synthetic raw materials and generally characterized by their high hardness and melting point combined with low toughness and resistance to fracture. They are the combination of complex oxides and silicates, also useful carbide, nitride, and boride ceramics are produced. One of the popular applications of ceramics are crucibles, vital materials used in the scientific research for melting different types of solid samples at varying high temperatures. This book mainly addresses the investigations on the thermodynamic compatibility and speed of manufacture of the potential crucible materials which can be produced in-house and considers their use in corrosion testing of frit furnace refractories and interactions with frit melts. Dense alumina and zirconia crucibles are manufactured in the laboratory by slip casting and tested for their resistance to corrosive attack by opaque and transparent frits. Microstructural analysis of the surfaces and/or interfaces are achieved by the use of principle methods of characterization including diffraction, light and electron microscopy as well as other analytical techniques. | Format: Paperback | Language/Sprache: english | 84 pp.



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