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advances in the understanding of these
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into how phase diagrams can be
utilized in the fabrication of whiskers
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and sintering information is reviewed
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Phase Archives | The American
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The partial vitrification process can be analyzed through a phase diagram such as that shown in Traditional ceramics - Traditional ceramics - Vitrification: The ultimate purpose of firing is to achieve some measure of bonding of the particles (for strength) and consolidation or reduction in porosity (e.g., for impermeability to fluids).

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the result of a long-standing collaboration between NIST and The American Ceramic Society to develop and maintain a state-of-the-art database of evaluated phase equilibria data for industrial and academic customers. NIST (then NBS) staff played key roles in establishing the project as a data-driven extension of existing core expertise in phase equilibrium science, thermodynamics

...

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Phase Diagrams As previously stated, the phase diagram is simply a map showing the structure of phases present as the temperature and overall composition of the alloy are varied. It is a very useful tool for understanding and controlling the

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structures of polyphase materials.

Property Modification - Alloying -
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IV (Figures 5000-5590) Roth, Robert
S., Taki Negas, and Lawrence P. Cook
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