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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).

Traditional ceramics - Vitrification | Britannica

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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 structures of polyphase materials.

Property Modification - Alloying - Phase Diagrams

Phase Diagrams for Ceramists Volume IV (Figures

5000-5590) Roth, Robert S., Taki Negas, and Lawrence P.

Cook (compiled by Geraldine Smith) Published by American Ceramic Society, (1981)

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