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Amorphous structure means that atoms are not organized according to a well-ordered, repeating arrangement as in crystals. Glass-ceramics are made of small grains surrounded by a glassy phase, and have properties in between those of glass and ceramics. The table below provides a summary of the main properties of ceramics and glass.

~~Structure and Properties of Ceramics | The American ...~~

Ceramic and Glass Materials: Structure, Properties and Processing is a concise and comprehensive guide to the key ceramic and glass materials used in modern technology. Each chapter focuses on the structure-property relationships for these important materials and expands the reader ' s understanding of their nature by simultaneously discussing the technology of their processing methods.

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Glass-ceramics can be subdivided into two categories: oxide and non-oxide. Oxide glass-ceramics include silicate (SiO_2), borate (B_2O_3), phosphate (P_2O_5) and germinate (GeO_2) type materials. Non-oxide glass-ceramics include chalcogenide, halide and metallic type.

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As mentioned previously, the silica structure is the basic structure for many ceramics, as well as glass. It has an internal arrangement consisting of pyramid (tetrahedral or four-sided) units. Four large oxygen (O) atoms surround each smaller silicon (Si) atom.

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Glass Ceramic Materials. Glass ceramic materials have the same chemical compositions as glasses but differ from them in that they are typically 95-98% crystalline by volume, with only a small percentage vitreous. The crystals themselves are generally very small, less than 1 μ m and most often very uniform in size.

~~What is a Glass Ceramic?—Materials Engineering~~

Glass-ceramics based on spinel compositions ranging from gahnite ($ZnAl_2O_4$) toward spinel ($MgAl_2O_4$) can be crystallized using ZrO_2 and/or TiO_2 as nucleating agents. These glass-ceramics can be made highly transparent, with spinel crystals on the order of 10 – 50 nm in size (Fig. 9). The phase assemblage consists of spinel solid-solution crystals dispersed throughout a continuous siliceous

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~~Glass Ceramics—an overview | ScienceDirect Topics~~

Glass-ceramics are polycrystalline materials produced through controlled crystallization of base glass. Glass-ceramic materials share many properties with both glasses and ceramics. Glass-ceramics have an amorphous phase and one or more crystalline phases and are produced by a so-called "controlled crystallization" in contrast to a spontaneous crystallization, which is usually not wanted in glass manufacturing. Glass-ceramics have the fabrication advantage of glass, as well as special properties

~~Glass ceramic—Wikipedia~~

Glasses are a unique range of ceramic materials defined principally by their atomic structure. Glasses do not exhibit the ordered crystalline structure of most other ceramics but instead have a highly disordered amorphous structure. This gives them very different properties to other crystalline ceramics.

~~4: Atomic Structure | School of Materials Science and ...~~

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Borosilicate glass has a much higher melting point than soda-lime glass. Question. State and explain which type of glass would be best to make a boiling tube, for use in a school chemistry laboratory.

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An accidental overheating of a glass furnace led to the discovery of materials known as glass-ceramics. When the glass was overheated, small crystals formed in the amorphous material that prevented cracks from propagating through the glass. The first step toward glass-ceramics involves conventional techniques for preparing a glass. The product is then heated to 750-1150 ° C, until a portion of the structure is transformed into a fine-grained crystalline material. Glass-ceramics are at least ...

~~Glass and Other Ceramics~~

Usually they are metal oxides (that is, compounds of metallic elements and oxygen), but many ceramics (especially advanced ceramics) are compounds of metallic elements and carbon, nitrogen, or sulfur. In atomic structure they are most often crystalline, although they also may contain a combination of glassy and crystalline phases.

~~Ceramic composition and properties | Britannica~~

Glass is a non-crystalline, often transparent amorphous solid, that has widespread practical, technological, and decorative use in, for example, window panes, tableware, and optics. Glass is most often formed by rapid cooling of the molten form; some glasses such as volcanic glass are naturally occurring. The most familiar, and historically the oldest, types of manufactured glass are "silicate ...

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