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Materials Structure

Amorphous structure

means that atoms are not organized according to a well-ordered, repeating arrangement as in

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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
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Glass-ceramics can be subdivided into two categories: oxide and non-oxide. Oxide glass-ceramics include silicate

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(SiO₂), borate (B₂O₃),
phosphate (P₂O₅) and
germinate (GeO₂) type
materials. Non-oxide
glass-ceramics include
chalcogenide, halide and
metallic type.

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glasses are inorganic
nonmetallic materials
consisting of metallic and
nonmetallic elements
bonded primarily with
ionic and covalent bonds
these high strength bonds
give rise to the special

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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

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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

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~~What is a Glass Ceramic?~~

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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

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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 glass.

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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

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"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~~
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Glasses are a unique

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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.

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Borosilicate glass has a

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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
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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

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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

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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,

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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

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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

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