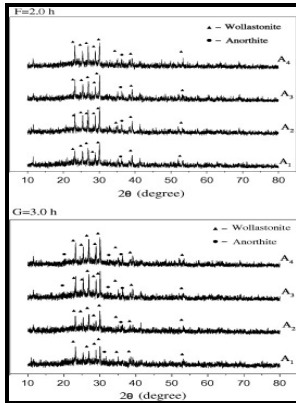


# Manufacture of glass-ceramics based on discard tin slag.

University of Birmingham - Phase transformation of glass



Description: -

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## Characterization and recycling potential of the discarded cathode ray tube monitors

The crystals arising from the oxidation in samples will increase the melting temperature of parent glasses. For BOF slag, its residual iron element contained inside also can be recovered by a reduction process when it was melted to prepare parent-glass.

## Review. Functional glasses and glass

These glass-ceramics are attractive as building materials for usage as construction and architectural components or for other specialised technical applications requiring a combination of suitable thermo-mechanical properties.

## The role of glass waste in the production of ceramic

Recycling techniques of cathode-ray tubes were reviewed, and a concise flow sheet for overall recycling was prepared for evaluation and assessment of recycling potential. The results demonstrate that the TFT-LCD waste glass with calcium fluoride sludge as the fluxing agent and MgO as the modifying agent can be used as a raw material for producing insulating glass ceramics. The major crystalline phase is anorthite and the minor phases are quartz and diopside, the size of which increases with the rise in crystallization temperature.

## BOF Slag Glass

Provenance and production of tin in the Ancient World has since long been a major topic of discussion among archaeologists. Moreover safe recycling of industrial wastes is necessary and even vital to our society because of the increasing volume being generated.

## Glass

The crystallization of it shows a similarity with the samp-A consequently.

## **BOF Slag Glass**

Then, the BS value remains steady among 800°C—900°C range. Reduction of Parent Glasses The reduction degree of parent glasses can be reflected through the content of the total iron TFe and iron ions like Fe<sup>2+</sup> and Fe<sup>3+</sup>, as shown in. Properties and applications of the different glass-ceramics produced are discussed.

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