

Cathode ray tubes glass wastes used for vitrification of iron oxide rich waste resulted from the groundwater treatment

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Abstract. This paper presents a new solution to use the cathode ray tube glass wastes for iron oxide rich waste vitrification. The obtained glass-ceramics, synthesized at three heat treatment temperatures: 800, 900 and 1000 °C were characterized in terms of the effect of the CRT waste glass addition upon the dimensional stability, apparent porosity and density, chemical stability and lead barium and iron ions retention capacity.

Keywords: CRT wastes; cathode ray tube; sludge waste; glass ceramics.

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