Review and Discussion of Candidate Ceramics For Immobilization of High-Level Fuel Reprocessing Wastes.

s.n - Ceramics for high level radioactive waste solidification


Review
The immobilization of high level radioactive wastes using ceramics and glasses

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Ceramic Materials for the Immobilization of Nuclear Waste, Annual Review of Materials Research

Design and fabrication of specific ceramic-metallic fuels and targets.

Ceramics for high level radioactive waste solidification

A number of these will undoubtedly prove suitable for particular types of nuclear waste, and the specific material selected will depend on the chemical characteristics and radioactive level of the particular waste involved. A number of alternatives with distinct advantages are also considered including a fused silica waste form with encapsulated nano-sized AgI crystals. The fact that SYNROC is composed of minerals that have demonstrated long-term geological stability is important in establishing public confidence in the ability of the nuclear industry to immobilize high-level wastes for the very long periods required.

The Fixation of High

These include, in particular, titanate, zirconate and phosphate based ceramics, together with iron phosphate based glasses and basaltic glass-ceramics. Application of crystal chemistry in the development of radioactive wasteforms. J Euro Ceram Soc 2003, 23: 1047—1052.

The Fixation of High

The immobilization of high level radioactive wastes using ceramics and glasses The immobilization of high level radioactive wastes using ceramics and glasses Donald, I. Immobilization of high level nuclear reactor wastes in Synroc. Both the glass and ceramic forms are viable candidates for use at DOE defense HLW sites; they are also candidates for immobilization of commercial reprocessing wastes.

Immobilization of High

In particular, SYNROC is well suited for disposal in deep drill-holes, both in continental and marine environments. Ceramic Materials for the Immobilization of Nuclear Waste Ceramic Materials for the Immobilization of Nuclear Waste Clarke, D R 1983-08-01 00:00:00 The long radioactive lifetime and toxicity of nuclear waste fission products necessitates their isolation from the biosphere for periods of 103 to 106 years.

The immobilization of high level radioactive wastes using ceramics and glasses, Journal of Materials Science

The complete Proceedings of that meeting can be obtained from Elsevier Science Publishers, PO Box 211, 1000 AE Amsterdam The Netherlands, under the title Ceramics Today—Tomorrow's Ceramics, P. Concepts for an inert matrix fuel: An overview. In Scientific Basis for Nuclear Waste Management VI.

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