

Matrix materials leaching stability

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The hydrolytic stability of some natural minerals (potential matrix materials for radionuclides immobilization) was carried out using MCC-1 method. The high resistance of these minerals was demonstrated. The various synthetic mineral matrix materials were prepared using different methods (hot pressing, sintering, sorption and phase transformation, etc.). The examinations of the leaching stability of the synthetic mineral matrices were carried out by the method MCC-1 (at 90°C). The high stability of the synthetic materials was demonstrated.

Key words: matrix materials, radionuclides, leaching stability

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