

含氚废水水泥固化实验研究

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摘要 研究用水泥固化处理氚废水,并选择了最佳配方:水与灰的重量比=0.45~0.5,水泥与石膏重量比=5:1。用IAEA推荐的方法做浸出实验。为了减少水泥固化体中氚的浸出量,实验了几种涂层材料。沥青涂层可将固化体氚的浸出率降低1~2个量级。

关键词 [含氚废液](#) [水泥](#) [沥青](#) [配方](#) [涂层](#)

分类号

STUDY ON SOLIDIFICATION OF TRITIUM-BEARING LIQUID WASTE WITH CEMENT

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Abstract The paper describes the solidification of tritium-bearing liquid waste with cement. The optimum formulation of cement form is found to be water-cement ratio=0.45~0.50 and cement= gypsum ratio=5. Leaching tests are made with the methods recommended by IAEA. In order to reduce the amount of tritium released from cement form, several packaging methods have been developed. The coating of the specimen surface with bitumen can reduce the leachability of tritium by 1—2 order of magnitude as compared with that of the specimen without coating.

Key words [Tritium-bearing liquid waste](#)[Cement](#)[Bitumen](#)[Formulation](#)[Coating](#).

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