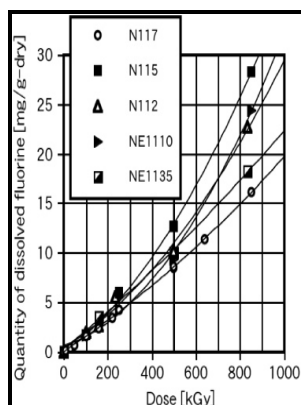


# Sorption of tritium and tritiated water on construction materials

## CFFTP. - Tritium removal from tritiated water by organic functionalized SBA



Description: -

- Plague -- Europe -- History

Building materials -- Effect of temperature on

Metals at high temperatures

Fusion reactors -- Walls

Tritium Sorption of tritium and tritiated water on construction materials

-

Report (Canadian Fusion Fuels Technology Project) -- CFFTP G-91114

AECL -- 10519

AECL -- no. 10519

CFFTP G-91114 Sorption of tritium and tritiated water on construction materials

Notes: Includes bibliographical references.

This edition was published in 1991



Filesize: 9.85 MB

Tags: #Recovery #of #tritium #and #deuterium #from #their #oxides #and #intermetallic #compound #useful #therein

### Preparation for tritiated waste management of fusion facilities: Interim storage WAC

All the above literature refers to the good sorption characteristics for hydrogen of these compounds and therefore of its isotopes. The range for both AFP and CEA assays was 0. Vajda N, Kim CK 2010 Determination of Pu isotopes by alpha spectrometry: a review of analytical methodology.

### Present status and perspective of radiochemical analysis of radionuclides in Nordic countries

These methods are often complicated with low production efficiency or require complex equipment. This is an annual tritium production rate of approximately 0. Three types of barriers can be distinguished.

### US5180568A

However, while advanced high-temperature materials continue to be developed, the outlook for their future application is uncertain and will depend on the ability of these materials to satisfy a more diverse market. Eriksson S, Vesterlund A, Olsson M, Rameback H 2013 Reducing measurement uncertainty in Ni-63 measurements in reactor coolant water with high 60Co activity.

### Containment of elemental tritium and tritiated water (Conference)

This demands efficient in-situ methods of mitigation and retrieval to avoid frequent outages due to the reaching of precautionary operating limits set by safety considerations e. In a manner analogous to tritium, tritiated water vapor desorbed into a flow system until a very small amount of activity remained in the system.

### Present status and perspective of radiochemical analysis of radionuclides in Nordic countries

The DMSB is filled with type 4A molecular sieve pellets capable of adsorbing up to 1000 curies of tritium. Apart from this point, the tritium release from waste was reduced by a factor of 5. Freeze-dried water from vegetation samples was found to be low in HTO immediately after the release

suggesting a low direct uptake of HTO in air by vegetation.

### **Annual Reports**

Qiao JX, Hansen V, Hou XL, Aldahan A, Possnert G 2012 Speciation analysis of  $^{129}\text{I}$ ,  $^{137}\text{Cs}$ ,  $^{232}\text{Th}$ ,  $^{238}\text{U}$ ,  $^{239}\text{Pu}$  and  $^{240}\text{Pu}$  in environmental soil and sediment. Laser high-heat-flux testing has also been developed to validate the material systems, and demonstrating durability under space entry high heat flux conditions. Collection efficiencies of tritium gas were also 99% or greater and reproducible.

## Related Books

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