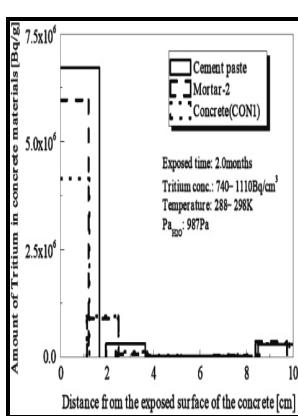


Sorption of tritium and tritiated water on construction materials

CFFTP. - US5180568A



Description: -

Plague -- Europe -- History
Building materials -- Effect of temperature on
Metals at high temperatures
Fusion reactors -- Walls
TritiumSorption of tritium and tritiated water on construction materials

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

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

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Tags: #Reducing #the #tritium #inventory #in #waste #produced #by #fusion #devices

Reducing the tritium inventory in waste produced by fusion devices

Such backing panel is bonded marginally and peripherally thereof to the barrier material or to both it and the filter or filters. Diffusivity for fluorine was largest and that for epoxy smallest. Outdoor exposure of wood causes a combination of physical and chemical degradation processes due to the combined effects of sunlight, moisture, fungi, and bacteria.

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

Presently, binding assays involving tritium are carried out using inconvenient and expensive techniques which rely on the use of scintillation fluid counting systems. Bubbling the gas stream containing tritium oxide through the container of water and removing gas from the container head space above the water.

Sorption of tritium and tritiated water on construction materials (Conference)

During FY16, the effects of forging strain rate and deformation temperature on the fracture toughness properties of tritium-exposed-and-aged Type 304L stainless steel were studied. They can be employed as simple powder; however the powders are generally compressed into shapes such has cylinders.

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Such degradation can be reduced through the use of Environmental Barrier Coatings EBCs that limit the amount of oxygen and water vapor reaching the component.

tritium barrier materials: Topics by Science.gov

The process of claim 7 wherein the contacting occurs at 300° to 550° C.

Containment of elemental tritium and tritiated water (Conference)

A process for the purification of an impure stream of tritium contaminated with oxides of deuterium and contaminated with oxides of tritium, comprising the steps of: I. Will DLC have the correct index range. Investigations on the surface properties and shape of the three packing materials clearly indicate that methane activation is considerably affected by the material used.

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