IZotope Alloy 2 V2.01 INTERNAL-R2R

The interphase reactions of vanadium in the ternary alloys Ti-V-Nb, and Ti-V-Ta have been investigated. The ternary alloys were synthesised by arc-melting using two different vapour pressures of Ti and Nb or Ta. The resulting ternary alloys were reacted for over a year at various temperatures in a TEM. Phase evolution was monitored by X-ray diffraction and SEM. After 2 years, vanadium diffusion from ternary alloys was measured by XPS. Comparison of these ternary alloys with base binary alloys showed that vanadium diffusion rates were generally slower at the intermediate temperature of 830 C. The effect of alloying on the diffusion rate of vanadium was limited since the ternary alloys were only a few percent richer in vanadium and did not show any change in diffusion rate. We deduced the role of ternary alloying in reducing vanadium diffusion, which is probably due to the preferred formation of a V_3O_5 phase in ternary alloys compared to binary alloys. This work showed that ternary alloys are a viable route for minimizing the diffusion of vanadium at the early stage of a storage process. However, after long term exposure, ternary alloys and base binary alloys exhibited almost identical diffusion rates and initial capacity for vanadium. The role of the structure of the inactive/inert phase on the performance of vanadium as a membrane material for carbon capture is investigated. Carbon solubility in vanadium and related alloys is dependent on the presence of defect sites. The presence of vanadium pentoxide is known to affect carbon capture capacity, and the effect of other titanium-vacuum silicate (TVS) compounds has been investigated.

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The behavior of W-V alloys fabricated by powder metallurgy as a plasma facing material has been studied. W-V alloys with different vanadium concentrations (5 and 10 wt %) manufactured by hot pressing (HP) were exposed to deuterium plasma (flux 4.6 1021 m-2s-1, fluence 5.6 1025 m-2, ion energy 60 eV, target temperature 450 K) in the linear plasma device STEP at Beihang University. Three typical grains are observed on HP sintered W-V alloys and exhibit a significant effect on its performance under deuterium plasma irradiation. Surface blistering only occurs at W-enriched grains and is significantly mitigated in W-V alloys, especially in W-10 V, blistering is completely suppressed. On the other hand, deuterium retention dramatically increases in the W-V alloys due to vanadium addition. The deuterium retention in W-5 wt. % V is about 6.2 times more than that in rolled pure W, and this factor further increases to 6.9 when the V concentration rises to 10 wt %. We ascribe these phenomena to the changes of microstructures and components caused by vanadium addition. Previous studies have proven that W-V alloys fabricated by powder metallurgy as a plasma facing material have a certain deuterium retention performance as a consequence of hydrogen embrittlement. In this paper, the microstructure evolution of W-V alloys and the corresponding hydrogen retention of W-V alloys after plasma treatment at Beihang University are investigated. Several grains in the microstructure of W-V alloys and its control on hydrogen retention are clearly revealed by EDXRF mapping, high angle annular dark field scanning electron microscopy (HAADF-STEM) and energy dispersive X-ray spectroscopy (EDX). Then the mechanism for the control of hydrogen retention is discussed based on the WV distribution in the matrix of W-V alloys and the microstructure of grains. 5ec8ef588b

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