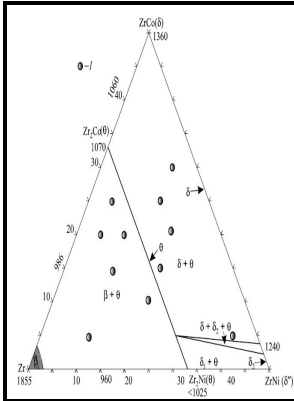


Structure and constitution of some ZrCo and Zr-Co-Ni alloys.

(n.pub.) - The Quasibinary ZrCo



Description: -

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Notes: Thesis (Ph.D.)- University of Birmingham Dept. of Physical Metallurgy and Science of Materials, 1972.

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Magnetic susceptibility and atomic structure of paramagnetic Zr

It is confirmed that ZrCo alloy is successfully coated with Ni particles which transform from a dispersed distribution to a uniform and compact arrangement with increasing depositing time. The relationship between the microstructures and the mechanical properties in the ternary Zr—Co—Pd alloys has been investigated. Powder Metall Met Ceram 55, 339—346 2016.

Effect of catalytic Ni coating with different depositing time on the hydrogen storage properties of ZrCo alloy

The martensite variants grow into the B2 parent phase along the {100} B2 with increasing tensile loading, and then grid-shaped martensite variants are formed at the failure of the specimen. It is likely that the plastic deformation mainly proceeds in the untransformed B2 parent phase because this martensite is harder than the B2 parent phase. Consequently, the authors conclude that the remarkable enhancement of ductility can be attributed to a transformation-induced plasticity associated with deformation-induced martensite.

Structural Phase Transformations in Zr50Co25Ni25 Alloy

The phase diagram of the system is constructed. In Zr 50Co 39Ni 11 alloy deformed at room temperature, lenticular martensite is observed in the B2 parent phase immediately after yielding, in addition to dislocations with the B2-type Burgers vector.

Deformation structure in ductile B2

In Zr 50Co39Ni11 alloy deformed at room temperature, lenticular martensite is observed in the B2 parent phase immediately after yielding, in addition to dislocations with the B2-type Burgers vector.

Deformation structure in ductile B2

Burkhardt C, 1996 A study of the influence of Gallium additions to Nd-Fe-B alloys and production of anisotropic H.

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