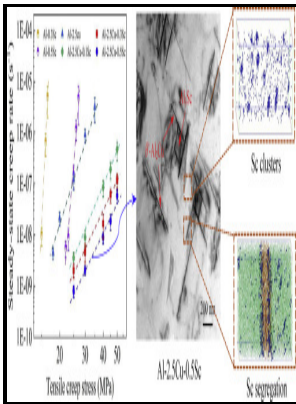


Recrystallization of heterogeneous Al-Cu alloys

N.T.I.S. - Molecular dynamics study on the heterogeneous nucleation of liquid Al



Description: -

-Recrystallization of heterogeneous Al-Cu alloys

AD 728 655Recrystallization of heterogeneous Al-Cu alloys

Notes: Translation of article from: Fizika Metallov i Metallovedenie, vol.28, no.4, 1969, p661-667.

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Tags: #Heterogeneous #structure

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When a material layer is depositing, the MPB is exposed to the oxygen present in the build chamber, causing decarburization because of the high affinity of C for O at high temperatures. The melt pool can be divided into three regions 1 core of the melt pool, 2 melt pool boundary MPB , and 3 heat-affected zone HAZ.

Influence of Manganese on the Recrystallization Characteristics and Texture Development of Cu

Synchrotron X-ray radiation was also applied to examine structural evolutions during the aging treatment and deformation process, which were performed on the 11-ID-C beam line of the Advanced Photon Source, Taiwan. The yield strength at room temperature follows the normal Petch relationship for grain size, but is stronger than recrystallized material of the same grain size because of the substructure.

Heterogeneous structure

The major strengthening phase of modern Al-Cu-Li alloys, T 1, is so far known to nucleate on a number of sites in the microstructure.

Thermomechanical Treatments of Aluminum Alloys :: Total Materia Article

XX with permission from the PCCP Owner Societies. A high-entropy alloy with hierarchical nanoprecipitates and ultrahigh strength.

Influence of Manganese on the Recrystallization Characteristics and Texture Development of Cu

The surfaces of the tensile specimens were carefully mechanically polished to minimize surface inhomogeneities. The data of the mechanical properties of these reported materials are acquired from Supplementary Table.

Three

Fracture properties of multiphase alloy MP35N. The influences of temperature gradient and cooling rate on the heterogeneous nucleation rate and growth kinetics of equiaxed grains have been studied quantitatively. Hierarchical microstructure design to tune the mechanical behavior of an

interstitial TRIP-TWIP high-entropy alloy.

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When the Cr content increases from 0 wt% to 0.

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