

Title (en)

ALUMINUM ALLOY PLASTIC WORKING MATERIAL AND PRODUCTION METHOD THEREFOR

Title (de)

ALUMINIUMLEGIERUNG-KUNSTSTOFF-ARBEITSMATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATÉRIAU DE TRAVAIL DE MATIÈRE PLASTIQUE ET D'ALLIAGE D'ALUMINIUM ET SON PROCÉDÉ DE PRODUCTION

Publication

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Application

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Abstract (en)

The present invention provides an aluminum alloy plastic working material which has a low Young's modulus, but has superior proof stress, and a method for efficiently producing the aluminum alloy plastic working material. The aluminum alloy plastic working material according to the present invention contains 5.0-10.0 wt% of Ca, the balance being aluminum and incidental impurities, and has 25% or more by volume of an Al₄Ca phase which is a dispersed phase. The Al₄Ca phase comprises a tetragonal Al₄Ca phase and a monoclinic Al₄Ca phase, and the intensity ratio (I₁/I₂) of the highest diffraction peak (I₁) attributed to the tetragonal system to the highest diffraction peak (I₂) attributed to the monoclinic system, which are obtained by an X-ray diffraction measurement, is one or less.

IPC 8 full level

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