

Title (en)

IRON-ALUMINUM-BASED PLATED STEEL SHEET FOR HOT PRESS FORMING, HAVING EXCELLENT HYDROGEN DELAYED FRACTURE PROPERTIES AND SPOT WELDING PROPERTIES, AND MANUFACTURING METHOD THEREFOR

Title (de)

PLATTIERTES STAHLBLECH AUF DER BASIS VON EISEN-ALUMINIUM FÜR HEISSPRESSFORMEN MIT HERVORRAGENDEN EIGENSCHAFTEN GEGEN VERZÖGERTEN WASSERSTOFFINDUZIERTEN BRUCH UND PUNKTSCHWEISSEIGENSCHAFTEN SOWIE VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

TÔLE D'ACIER PLAQUÉE À BASE DE FER-ALUMINIUM POUR FORMAGE À CHAUD AYANT D'EXCELLENTE PROPRIÉTÉS DE FRACTURE RETARDÉE À L'HYDROGÈNE ET PROPRIÉTÉS DE SOUDAGE PAR POINTS, ET SON PROCÉDÉ DE FABRICATION

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Application

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Abstract (en)

The present invention provides an iron-aluminum-based plated steel sheet, and a manufacturing method therefor, the iron-aluminum-based plated steel sheet comprising a base steel sheet and a plated layer formed on the surface of the base steel sheet, wherein the alloy plated layer comprises: a diffusion layer comprising an Fe-Al-based intermetallic compound having a cubic structure; and an alloyed layer formed on the diffusion layer and composed of an alloy phase differing from that of the cubic structure, the thickness of the diffusion layer is 3-20 μm , and the thickness of the diffusion layer is greater than 50% of the total thickness of the plated layer.

IPC 8 full level

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Cited by

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