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Microstructures, mechanical properties and deformation of near-rapidly solidified low-density Fe-20Mn-9Al-1.2C-xCr steels



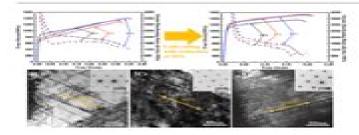
Jianlei Zhang ", Conghui Hu ", Yunhu Zhang ", Jiehua Li ", Changjiang Song " - , Oijie Zhai "

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HIGHLIGHTS

- Cr addition increases 6-ferrité content and decreases nano-scale «-carbide content in low-density Fe-20Mn-9Al-1-3° navé
- The decrease of nano-scale n-carbide promotes generation of the slip bands and increases its strain hardening rate.
- A double (Slip-band and Microband) hardening mechanism is proposed for strain hardening of the low-density steel strips.

GRAPHICAL ABSTRACT



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ABSTRACT

The effects of Cr addition on microstructures, mechanical properties and deformation behavior of near-rapidly solidified low-density Fe-20Mn-5W-L2C (wt. X) steel strips were investigated. It was found that Cr addition increased the volume fraction and size of 6-ferrite, and decreased the precipitation of 6-carbides in this low-density steel strip. The yield strength of the near-rapidly solidified steel strips was decreased significantly, but the ultimate tensite strength and the total elongation didn't obviously change. However, after cold rolling with 20% reduction, the yield strength and ultimate tensite strength of Cr-costaining steel strips were significantly higher than that of the Cr-free steel strip. It was attributed to the fact that the decrease of 6-carbides caused by Cr addition facilitated the formation of high-density slip bands during cold rolling deformation. The ultimate tressite strength and total elongation of cold-colid-did 3Cr (w. X) steel strip were 1270 MPa and 21t, respectively. A double (Sip-band and Microband) hardening mechanism was proposed for the strain hardening behavior of the low-density steel strips, and the number of nationals x-carbides played a crucial role in the strain hardening rate at the early strain stage.

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1. Introduction

Due to increasingly rigoeous demands of energy conservation and emission reduction, the Fe-Mn-Al-C steel with the excellent mechanical properties and low density has extensive attention in the automotive field [1-4]. According to the constitution phase, Fe-Mn-Al-C steel is

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Corresponding author.

Mechanical Behavior Of Rapidly Solidified Materials

Paulo Jorge Bartolo

Mechanical Behavior Of Rapidly Solidified Materials:

Mechanical Behavior of Rapidly Solidified Materials Shankar M. L. Sastry, 1986 Rapidly Solidified Alloys Liebermann, 1993-05-20 This volume details the principles underlying rapid solidification processing material structure and properties and their applications. This practical resource presents a manifold approach to both amorphous and crystalline rapidly solidified metallic alloys Written by over 30 internationally acclaimed specialists in their respective fields Rapidly Solidified Alloys surveys nucleation and growth studies in undercooled melts examines various processes for the production of rapidly solidified alloys discusses the compaction of amorphous alloys describes surface remelting treatments for the rapid solidification of surface layers and the resultant improved workpiece properties covers the closely related topics of structural relaxation atomic transport and other thermally induced processes demonstrates microstructure property relationships in rapidly quenched crystalline alloy systems and their beneficial effects in applications and elucidates the basic engineeering and applications oriented magnetic properties of amorphous alloys Furnishing more than 2300 literature citations for further study of specific subjects Rapidly Solidified Alloys is intended for materials mechanical product and civil engineers metallurgists magneticians physicists physical chemists and graduate students in these disciplines Behavior of Rapidly Solidified Materials Metallurgical Society of AIME Staff, Rapidly Solidified Materials Peter W. Lee, Robert S. Carbonara, 1985 Rapid Solidification Technology T.S. Sudarshan, T.S. Srivatsan, 1993-12-20 Rapid solidification processing results in increased strength and fracture and fatigue resistance of alloys with concurrent improvements in mechanical physical and chemical properties This volume provides a systematic examination of this technology including metallurgical aspects processing methods alloy design and applications Each chapter was prepared by a specialist for this volume The text is well illustrated with more than 400 micrographs and schematics More than 75 tables provide important reference data NASA Technical Memorandum ,1987 **Metallurgical Applications of Shock-Wave** and High-Strain Rate Phenomena Lawrence E. Murr, Karl P. Staudhammer, Marc A. Meyers, 2024-11-01 This book examines the explosive and related technologies in the context of metallurgical and materials processing and fabrication It is a record of the international exchange of information on the metallurgical and other material effects of shock wave and high strain rate phenomena Mechanical Behavior of Metals at Extremely High Strain Rates Jaroslav Buchar, 1986

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