Accepted Manuscript

Core structure and strengthening mechanism of the misfit dislocation in nickel-based superalloys during high-temperature and low-stress creep

Shiyu Ma, Xianzi Lv, Jianxin Zhang, Youjian Zhang, Pan Li, Huixin Jin, Wenyang Zhang, Xueqiao Li, Shengcheng Mao

PII: S0925-8388(18)30337-2

DOI: 10.1016/j.jallcom.2018.01.323

Reference: JALCOM 44787

To appear in: Journal of Alloys and Compounds

Received Date: 29 October 2017

Revised Date: 15 January 2018

Accepted Date: 25 January 2018

Please cite this article as: S. Ma, X. Lv, J. Zhang, Y. Zhang, P. Li, H. Jin, W. Zhang, X. Li, S. Mao, Core structure and strengthening mechanism of the misfit dislocation in nickel-based superalloys during high-temperature and low-stress creep, *Journal of Alloys and Compounds* (2018), doi: 10.1016/j.jallcom.2018.01.323.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Core structure and strengthening mechanism of the misfit

dislocation in nickel-based superalloys during

high-temperature and low-stress creep

Shiyu Ma^a, Xianzi Lv^a, Jianxin Zhang^{a,*}, Youjian Zhang^a, Pan Li^a, Huixin Jin^a, Wenyang Zhang^a, Xueqiao Li^b, Shengcheng Mao^b

 ^a Key Laboratory for Liquid-Solid Structural Evolution & Processing of Materials (Ministry of Education), Shandong University, Jinan 250061, China
^bBeijing Key Lab of Microstructure and Property of Advanced Materials, Beijing University of Technology, 100024 Beijing, China

(Submitted to Journal of alloys and compounds)

Please send all correspondences to:

Prof. Jianxin Zhang

School of Materials Science and Engineering

Shandong University

17923 Jingshi Road, Jinan, Shandong Province

250061, China

Tel: +86-531-88392315

Fax: +86-531-88392315

Email: jianxin@sdu.edu.cn

Download English Version:

https://daneshyari.com/en/article/7993207

Download Persian Version:

https://daneshyari.com/article/7993207

Daneshyari.com