

Development of Small Punch Testing Method for Evaluating Creep Property of High Cr Ferritic Steel: Part II - Stress Analysis of Small Punch Test Specimen by Finite Element Method

Toshiya Nakata, Shin-ichi Komazaki, Yutaka Kohno, Hiroyasu Tanigawa



PII: S0921-5093(16)30316-1  
DOI: <http://dx.doi.org/10.1016/j.msea.2016.03.102>  
Reference: MSA33497

To appear in: *Materials Science & Engineering A*

Received date: 27 December 2015  
Revised date: 18 March 2016  
Accepted date: 21 March 2016

Cite this article as: Toshiya Nakata, Shin-ichi Komazaki, Yutaka Kohno and Hiroyasu Tanigawa, Development of Small Punch Testing Method for Evaluating Creep Property of High Cr Ferritic Steel: Part II - Stress Analysis of Small Punch Test Specimen by Finite Element Method, *Materials Science & Engineering A*, <http://dx.doi.org/10.1016/j.msea.2016.03.102>

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 galley proof before it is published in its final citable 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.

Development of Small Punch Testing Method for Evaluating Creep Property of High Cr  
Ferritic Steel: Part II - Stress Analysis of Small Punch Test Specimen by Finite Element  
Method

Toshiya Nakata <sup>a, 1, \*</sup>, Shin-ichi Komazaki <sup>b</sup>, Yutaka Kohno <sup>c</sup>, and Hiroyasu Tanigawa <sup>d</sup>

a Division of chemical and materials engineering, Muroran Institute of Technology, 27-  
1 Mizumoto-cho, Muroran, Hokkaido, 050-8585, Japan

b Division of Mechanical Engineering, Graduate School of Science and Engineering,  
Kagoshima University, Kagoshima, 890-0065, Japan

c Materials Science Research Unit, College of Design and Manufacturing Technology,  
Muran Institute of Technology, Muroran, 050-8585, Japan

d Structural Materials Development Group, Department of Fusion Reactor Materials,  
Research Rokkasho Fusion Institute, Sector of Fusion Research and Development, Japan  
Atomic Energy Agency, Rokkasho, 039-3212, Japan

1 Present address: Division of Industrial Innovation Sciences, Graduate School of  
Natural Science & Technology, Okayama University, Okayama, 700-8530, Japan

\* Corresponding author, Tel.: +81-86-251-8031; fax: +81-86-251-8031. E-mail address:  
tnakata@okayama-u.ac.jp (T. Nakata)

Download English Version:

<https://daneshyari.com/en/article/7975397>

Download Persian Version:

<https://daneshyari.com/article/7975397>

[Daneshyari.com](https://daneshyari.com)