Title: Residual Stress Distribution in Friction Stir Welded ODS Steel Measured by Neutron Diffraction

Authors: H. Dawson, M. Serrano, S. Cater, P. Wady, T. Pirling, E. Jimenez-Melero

PII: S0924-0136(17)30097-3
DOI: http://dx.doi.org/doi:10.1016/j.jmatprotec.2017.03.013
Reference: PROTEC 15156

To appear in: *Journal of Materials Processing Technology*

Received date: 9-1-2017
Revised date: 15-3-2017
Accepted date: 16-3-2017

Please cite this article as: Dawson, H., Serrano, M., Cater, S., Wady, P., Pirling, T., Jimenez-Melero, E., Residual Stress Distribution in Friction Stir Welded ODS Steel Measured by Neutron Diffraction.Journal of Materials Processing Technology http://dx.doi.org/10.1016/j.jmatprotec.2017.03.013

Residual Stress Distribution in Friction Stir Welded ODS Steel Measured by Neutron Diffraction

H. Dawson[a,*], M.Serrano[b], S. Cater[c], P. Wady[d], T. Pirling[e], E. Jimenez-Melero[a]

[a]*School of Materials, University of Manchester, Manchester M13 9PL, United Kingdom*

[b]*Structural Materials Division, Technology Department, CIEMAT, Avda de la Complutense 40, 28040 Madrid, Spain*

[c]*Friction and Forge Processes Department, Joining Technologies Group, TWI Technology Centre (Yorkshire), Advanced Manufacturing Park, Wallis Way, Catcliffe, Rotherham S60 5TZ, United Kingdom*

[d]*Dalton Cumbrian Facility, University of Manchester, Westlakes Science & Technology Park, Moor Row, Cumbria, CA24 3HA, United Kingdom*

[e]*Institut Laue-Langevin, BP 156, rue de Horowitz, 38042 Grenoble Cedex 9, France*

Corresponding author (*):

University of Manchester

School of Materials

Oxford Road

Manchester

M13 9PL

United Kingdom

Tel.: +447984657227

Email: huwdawson@gmail.com