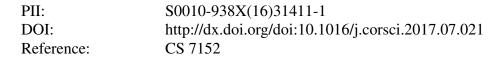
Accepted Manuscript

Title: External α -Al₂O₃ scale on Ni-base alloy 602 CA - Part II: Microstructural evolution

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To appear in:

Received date:	15-12-2016
Revised date:	24-7-2017
Accepted date:	28-7-2017

Please cite this article as: R. Pillai, A. Chyrkin, T. Galiullin, E. Wessel, D. Gr*ddotu*ner, W.J. Quadakkers, External *rmalpha*-Al₂O₃ scale on Ni-base alloy 602 CA - Part II: Microstructural evolution, *<![CDATA[Corrosion Science]]>* (2017), http://dx.doi.org/10.1016/j.corsci.2017.07.021

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ACCEPTED MANUSCRIPT

- Novel pre-oxidation procedure to promote external alumina scaling on Ni-base alloy 602 CA
- Different microstructural changes were observed in the bare and pre-oxidised specimens
- Carbides were observed to re-precipitate after initial dissolution in the pre-oxidised specimens
- A quantitative thermodynamic-kinetic description is given for the dissolution and reprecipitation of carbides
- Excellent agreement between experimental and modelling results

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