

Accepted Manuscript

Title: Comparative Study of Severe Plastic Deformation at Elevated Temperatures of two Aluminium Alloys during Friction Surfacing

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PII: S0924-0136(17)30156-5
DOI: <http://dx.doi.org/doi:10.1016/j.jmatprotec.2017.04.021>
Reference: PROTEC 15199

To appear in: *Journal of Materials Processing Technology*

Received date: 6-10-2016
Revised date: 25-4-2017
Accepted date: 26-4-2017

Please cite this article as: Hanke, S., dos Santos, J.F., Comparative Study of Severe Plastic Deformation at Elevated Temperatures of two Aluminium Alloys during Friction Surfacing. *Journal of Materials Processing Technology* <http://dx.doi.org/10.1016/j.jmatprotec.2017.04.021>

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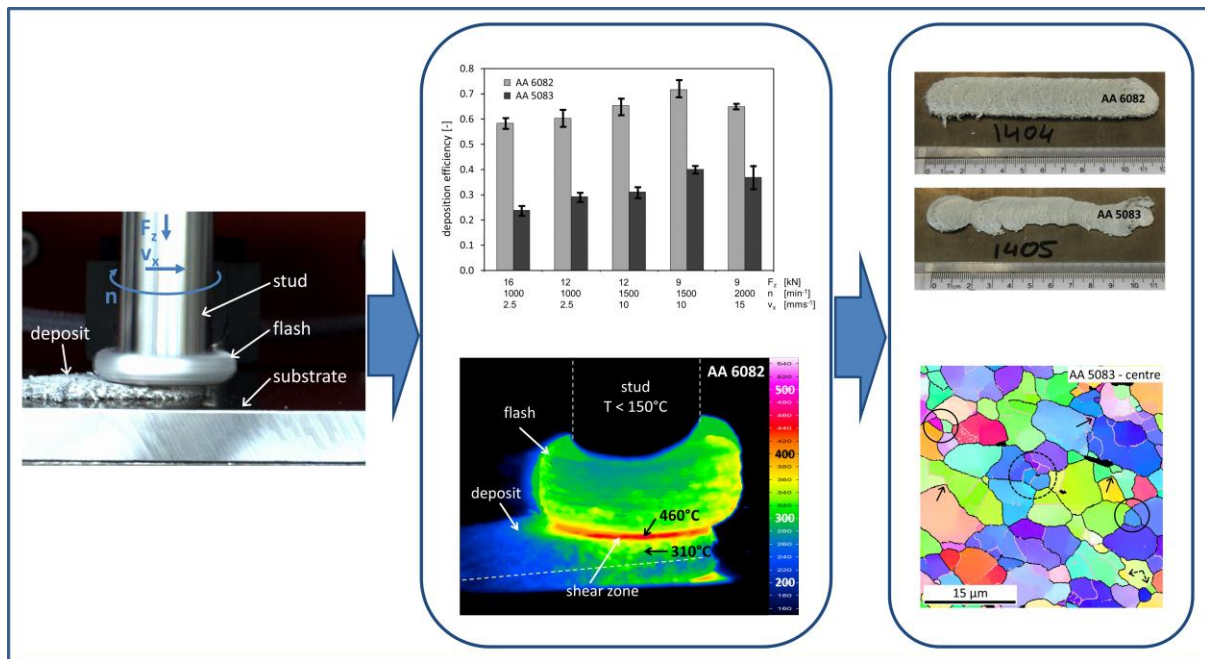
Comparative Study of Severe Plastic Deformation at Elevated Temperatures of two Aluminium Alloys during Friction Surfacing

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Graphical abstract



Abstract

Aluminium alloys 5083 and 6082 were deposited by Friction Surfacing (FS) under the same process conditions. Process characteristics including torque and forces, temperatures and the deposit microstructure were compared. The observed differences are discussed with regard to material strength, thermal softening rate and recrystallization mechanisms.

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