Accepted Manuscript

Title: An alternative evaluation method for friction condition in cold forging by ring with boss compression test

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PII: S0924-0136(15)00176-4

DOI: http://dx.doi.org/doi:10.1016/j.jmatprotec.2015.04.010

Reference: PROTEC 14381

To appear in: Journal of Materials Processing Technology

Received date: 6-2-2014 Revised date: 27-9-2014 Accepted date: 12-4-2015

Please cite this article as: Hu, C., Ou, H., Zhao, Z.,An alternative evaluation method for friction condition in cold forging by ring with boss compression test, *Journal of Materials Processing Technology* (2015), http://dx.doi.org/10.1016/j.jmatprotec.2015.04.010

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Research highlights

- 1. An alternative quantitative evaluation method for the friction condition in cold forging by ring with boss compression test (RCT-B) was proposed.
- 2. The RCT-B method was successfully applied to determine the friction factors of four different lubricating conditions with aluminum workpieces.
- 3. Experimental and FE simulation results also show that using the RCT-B method the difference of lubrication conditions can be quantitatively evaluated by checking the inclined angle of the outer boss.

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