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Capability of the BBC2008 yield criterion in predicting the earing profile in cup deep drawing simulations

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We deal with modelling of elasto-plastic response of highly anisotropic sheet metals. Constitutive model parameters are identified from experiments for two Al-alloys. BBC2008 constitutive model and NICE integration scheme are implemented in Abaqus FEM. For both Al-alloys more than four ears were accurately predicted by simulation.

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