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Dear Sirs,

The submitted paper entitled “Impact Behaviour of safety shoe high strength steel parts” presents a numerical study on the influence of the cell-arrangement and pore shape of open-cell metal foams.

Within this work, the dynamic response of safety toe cap models made of high-strength steel was analyzed. The structural response to impact loading conditions under normative requirements was properly related to the potential of lightweight design for a significant thickness reduction. A fully martensitic steel grade was selected and numerical models for extensive plastic deformation and strain-rate dependence were used. A local stiffening toe cap model with high energy absorption efficiency was validated.

I confirm that the submitted paper is of original material and has not been submitted elsewhere for publication simultaneously or has been published elsewhere. The paper is an improved version of an oral presentation and abstract from the “11th Workshop on Dynamic Behaviour of Materials and its Applications in Industrial Processes”. The suggested reviewers are members of the scientific committee of the workshop.

I hope this paper will be considered useful to your journal.

Best regards

Nuno Peixinho